

THE CLASSICAL TIBETAN LANGUAGE

Stephan V. Beyer

THE CLASSICAL
TIBETAN LANGUAGE

SUNY series in Buddhist Studies

Matthew Kapstein, editor

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Stephan V. Beyer

*ñā de-phyir śes-nas ntśhad-pa yin
gnañ-ba thob-nas rtsom-pa yin
log-smra ndug-nas rtsod-pa yin
—Pad-ma dkar-po*

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*I seem to produce children more rapidly than I
produce books, which indicates that my priorities are
properly organized. This one is for Rebecca.*

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Foreword

The year 1959 marks an abrupt turning point in the history of Tibet. The flight of the Fourteenth Dalai Lama to India, where he was followed by close to a hundred thousand of his fellow Tibetans, created a nation in exile dedicated above all to the preservation of the unique cultural institutions of its homeland. Not surprising, then, that during the past three decades the academic study of Tibet has been radically transformed. No longer the special preserve of adventurer-scholars able to mount expeditions to the Land of Snows, or of philologically oriented "buddhologists," whose Tibetan researches were almost exclusively confined to the translations of Sanskrit texts, Tibetan studies increasingly came to focus upon the indigenous Tibetan traditions of religion, learning and art that are the primary interests of Tibetans themselves.

Prominent among those whose scholarship reflected the changed conditions for research during the first two decades of Tibetan exile was a specialist in the field of Buddhist Studies, Stephan Beyer, then of the University of Wisconsin, whose superb contribution to the documentation and interpretation of Tibetan Buddhist ritual, *The Cult of Tārā*, marked the first fruits of his wide-ranging researches. After the late seventies, however, Steve increasingly devoted his energies to a career in law, having completely abandoned—or so it was widely rumored—his work in Tibetan and Buddhist Studies. I was therefore surprised and delighted to learn, after I joined the faculty of the University of Chicago in 1986, that Steve was both in Chicago (with the firm of Sidley & Austin) and that in his spare time he had remarkably completed a grammar of literary Tibetan, which he had begun at the University of California—Berkeley some ten years before. In 1988 Steve sent me a copy of the manuscript. I immediately felt it to be an extremely exciting work, reflecting throughout the author's wide-ranging knowledge of Tibetan literature, in its many genres and forms, ancient and recent.

A distinctive feature of Steve's approach to the Tibetan language is his almost complete abandonment of the morphological and syntactic categories, borrowed from Indo-European grammars, that have traditionally informed textbooks of Tibetan. The "canonical" status of this mismatching was reinforced both by indigenous Tibetan grammatical tradition, which derived its own analytic and descriptive categories from India, and by the emphasis,

in Western philological circles, on the study of literary Tibetan primarily as an adjunct to the study of Sanskrit Buddhist texts. For those who were inclined to direct their attention primarily to works of Tibetan authorship—epic, history, biography, poetry, and so forth—it has long been clear that Indo-European models were both inadequate and misleading, but the effort to correct the powerful disposition to continue to adhere to them was largely limited, as it was in Jacques Bacot's still useful *Grammaire*, to the enumeration of the so-called "particles." And while it is true that linguists specializing in Tibeto-Burman have generally avoided the sanskrizing inclinations of the philologists, they have by-and-large not addressed their work to those who study Tibetan in order to actually read Tibetan literature. *The Classical Tibetan Language*, therefore, calls for the student of literary Tibetan to rethink the Tibetan language fundamentally.

In terms of its extraordinarily thorough treatment of the phenomena one encounters in literary Tibetan, and the insights that mark virtually every page, *The Classical Tibetan Language* is a work without precedent. It is my belief that the rethinking it calls for is essential for the realization of the creative potentialities of contemporary Tibetan studies, and that such controversy as it will perhaps arouse will significantly contribute to the creative growth of the field. Steve gives us a tantalizing glimpse of some possible lines of exploration in his deeply penetrating, yet appropriately playful, remarks on Tibetan poetry and poetics. Our rethinking of the Tibetan language is not to be a linguistic exercise plain and simple: we must inquire into the manner in which Tibetan writers used and thus continually rethought their own language, forming of it a unique medium for a distinctively Tibetan heritage of learning, insight and wit.

MATTHEW KAPSTEIN

Columbia University
Vesak 1991

Preface

In 1975, I accepted an appointment as a visiting associate professor at the University of California at Berkeley, and I looked around for a nice portable project to take with me. It is a measure of my innocence that I decided to start writing a grammar of classical Tibetan. Now, more than fifteen years later, the project is about as finished as I am ever going to make it. During those fifteen years, I returned to the University of Wisconsin at Madison, abandoned my tenured appointment, and began a career as a trial lawyer with the firm of Sidley & Austin in Chicago. During that time, too, it would be fair to say that my work on this grammar was sporadic. Yet somehow, during all those odd moments, a stack of handwritten notes about two feet high—examples from the classical literature, attempts at theorizing, jumbles of cross-references—became the product you now have before you. My motive was simple—to move the Tibetan language from my head to paper. I hope someone finds the result useful.

I am not a Tibeto-Burman linguist; but I believe that the reader of classical Tibetan texts should have some sense of the place of the language in the speech communities of the world. References in this text to Tibeto-Burman languages other than Tibetan are based on several secondary sources, chief of which is Paul K. Benedict, *Sino-Tibetan: A Conspectus* (Cambridge: Cambridge University Press, 1972), as edited and annotated by James Matisoff, and David Bradley, *Proto-Loloish*, Scandinavian Institute of Asian Studies Monograph Series No. 39 (London: Curzon Press, 1979). Comparative citations of Tibeto-Burman forms are largely taken from these two remarkable compilations. In addition, I have relied on the stream of works produced by the Summer Institute of Linguistics on the languages of Nepal, in particular the various works of Warren W. Glover on Gurung and the works in the four volumes of Austin Hale and David E. Watters, *Clause, sentence, and discourse patterns in selected languages of Nepal*, Summer Institute of Linguistics Publications in Linguistics and Related Fields 40 (Kathmandu: Summer Institute of Linguistics and Tribhuvan University, 1973). In the bibliography at the end of the text, I have tried to include not only the texts upon which I have relied but also the texts that the literary scholar might find enlightening.

In all my reading on the classical Tibetan language, I have returned again and

again to the works of three scholarly pioneers of Tibetan studies—Berthold Laufer, Géza Uray, and Rolf Stein. They represent the best scholarship to which I could aspire, and I cannot put forward this book without acknowledging the debt I owe them. I also cannot forebear from mentioning the name of E. Gene Smith, whose work is scattered in introductions and prefaces to the works of others; the collection of these into a single and accessible volume is a scholarly desideratum which is, unfortunately, not likely to occur soon.

I owe a great personal debt to Professor Matthew Kapstein of Columbia University, for his friendship, encouragement, good sense, and extraordinary knowledge of the Tibetan language. No writer could hope for a better or more thorough reader, or for a more discerning critic. Thanks, too, to Professors James Matisoff of the University of California and F. K. Lehman of the University of Illinois for their generous help, encouragement, and suggestions. Finally, I want to thank my friends and law partners Mike Davis, Bill Richmond, and Doug Fuson. Their friendship and support helped me write this book, even though they did not know it.

One final note. If you want to learn classical Tibetan, you can do no better than to sit down and read *A Tibetan-English Dictionary* by H.A. Jäschke, originally published in 1881 and reprinted several times thereafter. Jäschke was a Moravian missionary in Ladakh, and I do not think that any other scholar of Tibetan has ever equalled the linguistic insight exhibited in this dictionary. And if you want to learn how to THINK ABOUT classical Tibetan, you should sit down and read—twice—James A. Matisoff, *Variational Semantics in Tibeto-Burman*, Occasional Papers of the Wolfenden Society on Tibeto-Burman Linguistics 6 (Philadelphia: Institute for the Study of Human Issues, 1978), which is simultaneously one of the most sensible and sensitive books on *doing* Tibeto-Burman linguistics I have ever read.

STEPHAN V. BEYER

Chicago
May 1991



Khams-sprul rin-po-che VIII Don-brgyud Ri-ma—with thanks

This book is intended to describe the reading of texts in the classical Tibetan language. It is not a complete survey of all aspects of Tibetan grammar, although I have tried to include everything I thought it was important to know. It is intended to describe the READING of classical Tibetan; therefore it will not attempt to teach the reader to speak either Old Tibetan or some modern Tibetan dialect.¹ Rather my aim has been to provide procedures for the understanding of TEXTS—that is, coherent discourses with literary or philosophical content, whose authors used the resources of their language to convey meaning.

Moreover, this book describes the reading of CLASSICAL Tibetan. I have excluded from systematic consideration the modern newspaper language at one end and the language of translated Indic texts at the other. This leaves a sufficiently immense corpus of written Tibetan material for us to work from.²

¹ This limitation has made the descriptive task much easier. A RECOGNITION GRAMMAR such as this need not incorporate the output constraints required in a PRODUCTION GRAMMAR, under the assumption that a reader simply will not encounter syntactically ill-formed sequences, whereas a beginning speaker may well produce them. For example, a production grammar of English would require both a rule to produce the sequences *goodness* and *correctness* and a constraint on the same rule to prevent the sequences *?tness* or *?strongness* (as opposed to *truth* or *strength*). But a recognition grammar would need only a rule allowing such sequences as *goodness* or *correctness* to be interpreted when encountered. If *tness* or *strongness* should turn up in a text, they could be processed by the same rule; if not, the question does not arise.

² I think it is fair to say that the translated materials have been more intensively studied than works originally composed in Tibetan, because of the primarily Indological interests of many scholars of Tibetan; most existing textbooks reflect this interest. There can be no doubt, of course, that the classical language, as here defined, is closely related to the translation language. But it is clear too that the language of the translations exhibits its own peculiarities, including occasionally opaque attempts at reproducing Sanskrit syntax. These peculiarities, I firmly believe, are best analyzed from the point of view of the grammar of native Tibetan works, rather than the other way around.

Finally, I hope to introduce classical Tibetan as a LANGUAGE, with a history, with a range of styles, and with ongoing processes of creation and change. Too often the Tibetan language is seen either as a poor substitute for unfortunately vanished Sanskrit texts, or as a spiritual code whose value lies solely in the message it conceals—with the result that the language itself is neglected as a medium of great range, power, subtlety, and humor. I hope to rescue Tibetan from its subordination to Indic criteria, and to help the reader proceed not only with some grammatical confidence but also with an awareness of the individuality and literary potential of the language. I hope to provide the reader with conceptual tools for an intelligent and critical reading of Tibetan texts. I hope to share some of my affection for the Tibetan language.



Figure 1. *Dhyāns-iśan-ma*, goddess of music and speech

Transliteration

1. PHONEMIC SYMBOLS

In this book I will use the following inventory of symbols to transcribe Tibetan of all periods:

	STOPS		FRICATIVES		SONORANTS	
GLOTTAL	?		h			
VELAR	k	g	x	γ	ñ	
PALATAL	c	j	ś	ż	ń	y
RETROFLEX	ʈ	ɖ	ʂ	ʐ	ɳ	r
DENTAL	t	d	s	z	n	l
LABIAL	p	b	f	v	m	w

Table 1. Transliteration of consonants

	FRONT		BACK	
HIGH	i	ɨ	u	
	e	ə	o	
	ɛ	ʌ	ɔ	
LOW	a			

Table 2. Transliteration of vowels

2. DIGRAPHS AND DIACRITICS

Combinations of symbols will be used to represent AFFRICATES (such as ts, dz,

pʃ), ASPIRATES (such as *kh*, *bh*, *tsh*), PALATALIZED CONSONANTS (such as *khy*, *zy*, *my*), and similar modifications. A small subscript circle will indicate that a normally voiced phoneme is VOICELESS, as in New Tibetan (Lhasa) *la* "god" as opposed to *la* "mountain pass." An umlaut will indicate that the marked vowel is articulated at the end of the mouth other than the usual one—that is, that a normally back rounded vowel is a FRONT ROUNDED vowel at the same height, as in New Tibetan (Lhasa) *šü* "tell," where the vowel is fronted as opposed to *šu* "sit" and rounded as opposed to *si* "destroy"; or that a normally front spread vowel is a BACK SPREAD vowel at the same height, as in New Tibetan (Amdo) *šiñ* "field," where the vowel is backed as opposed to *šin* "cloud" and spread as opposed to *šuñ* "protection." The symbol *l* will represent a voiced murmured lateral, as in New Tibetan (Ladakh) *lama* "lama," *la* "god," *lu* "song." I will use the symbol *n* to indicate both NASALIZATION of a preceding vowel, as in New Tibetan (Dbus) *gün* "grape," and PRENASALIZATION of a following consonant, as in *ngü* "move."

3. OTHER SYMBOLS

I will use an asterisk to mark an UNATTESTED form which has been historically reconstructed, as in Proto-Tibetan **gryab* "throw." I will use an interrogative to mark a DISALLOWED form which is precluded by the synchronic rules of the language, as in Old Tibetan ?*rta-mams-dag* as opposed to *rta-dag-mams* "horses." Quotation marks will enclose GLOSSES, as in Old Tibetan *rta* "horse," in order to identify forms and constructions, not to provide their central meaning or best possible translation, although I must confess I think my translations are often quite clever; capitalized glosses are SEMANTIC, as in Old Tibetan *-dag* "MORE THAN ONE."

The sign > means "changes into" and < means "develops from," as when Proto-Tibetan **gryab* "throw" > Old Tibetan *rgyab* > New Tibetan (Lhasa) *cáp*. The sign ~ means "varies with," as when Old Tibetan *me-tog* ~ *men-tog* "flower." The sign → in glosses means "is lexicalized as," as in Old Tibetan *rdo-riñ* "long stone → monument," New Tibetan (Dbus) *menta* "fire arrow → gun." Angle brackets enclose GRAPHES, as when I indicate that New Tibetan (Lhasa) *sance* "Buddha" has the written form <*sañs-rgyas*>. The graph called *a-tshuñ* "little *a*" by the Tibetan grammarians will be transcribed, for expository purposes only, by a slash, as when discussing the written form <*be/u*> for Old Tibetan *beu* "calf," but will not otherwise be transcribed, for

reasons that will be made clear in the main body of the text—thus, normally, Old Tibetan *od* <*od*> “light” rather than </*od*>, *beu* <*beu*> “calf” rather than <*be/u*>, and *mda* <*mda*> “arrow” rather than <*mda*>.

A hyphen will be used to indicate that the syllables which it connects constitute a single WORD, as in Old Tibetan *ndžig-ten* “world,” or a single STRESS GROUP, as in Old Tibetan *pad-dkar* “white lotus.” It will also be used to indicate that a morpheme is BOUND and must occur with some other form either preceding, as in Old Tibetan *-dag* “MORE THAN ONE,” or following, as in Old Tibetan *mi-* “NEGATIVE.” A hyphen may also indicate the POSITION of a phoneme in a Tibetan syllable: thus *r-* indicates a leftmost *r*, as in *rgu*, *-r-* indicates a medial *r*, as in *gru*, and *-r* indicates a final *r*, as in *gur*.

I will use a period to distinguish a stop preinitial followed by an initial glide, as in Old Tibetan *g.yon* “left” > New Tibetan (Lhasa) *yōN*, from a stop initial followed by a postinitial glide, as in Old Tibetan *gyoñ* “loss” > New Tibetan (Lhasa) *chon*.

Capitalization of a phoneme will indicate that it undergoes regular MORPHOPHONEMIC CHANGES according to phonological environment. Such an environment may be across a syllable boundary, as when the Old Tibetan nominalizer *-pa* becomes *-ba* after preceding final *-ñ*, *-r*, *-l* and vowels, and *-pa* elsewhere; or within a syllable, as when the Old Tibetan future tense prefix *G-* becomes *g-* before acute consonant initials and *d-* before grave consonant initials. Verb ROOTS will be entirely capitalized, followed, where appropriate, in parentheses, by the tense stems of that root, present and past in the case of intransitive verbs, and present, past, future, and imperative in the case of transitive verbs—for example, *KHUM* (*nkhum/khums*) “become shrunken,” *TU* (*nthu/btus/btu/thus*) “gather,” *SLAB* (*slob/bslabs/bslab/slobs*) “teach.” Using this convention, we will show the derivation of, say, the present and past stems of *GAD* “laugh” as *dgod* < *G-GAD* “laughs” and *bgad* < *b-GAD-S* “laughed.”

The Tibetan vertical stroke or *šad*, marking a reading pause, will be transcribed with a comma.

4. OTHER LANGUAGES

Words in New Chinese, as well as Chinese place names, book titles, and other non-linguistic citations, will be given in Wade-Giles transcription, about

which I am sentimental. Reconstructed forms in Old and Middle Chinese—Karlgren's "Archaic" and "Ancient" Chinese—have been taken from Bernhard Karlgren's *Grammata Serica Recensa*, with several liberties taken with his transcription. Sanskrit is transcribed in the traditional manner, as are, more or less, Mongolian and Burmese. Those familiar with these languages should have no difficulty recognizing the forms. There is nothing even approaching a generally accepted tradition for transcribing the less well-known Tibeto-Burman languages; I have followed, as best I could, the transcriptions of the various authors to whose works I have referred, and I have attempted—probably with little success—to force some consistency upon the various systems.



Figure 2. Charm to bind demons

1. DEFINING TIBETAN

TIBETAN is a language spoken primarily on the high plateau north of the Himalayas. It is related to a number of Himalayan languages, such as Gurung and Magar, whose speakers were a traditional source of recruits for the British Gurkha forces. It is also related to several languages, such as Rgyarong and Minyag, spoken on the great northern plains by nomadic tribes traditionally called "western barbarians" by the Chinese.¹ Tibetan is more distantly related to Burmese; even more distantly to languages spoken by Naked Nagas and other hill tribes of Assam; and more distantly still to Chinese. Tibetan has had a writing system since the seventh century, borrowed from an Indian prototype. India, in fact, has had a massive cultural impact on Tibet; but Tibetan itself is unrelated to Sanskrit or any other Indic language.

We can define Tibetan as that language in which we find the word *bdun* "seven" and its cognates—particularly as opposed to the word **snis* and its cognates found everywhere else among the Tibeto-Burman languages. For example, we find Rgyarong *snyis*, Horpa *zne*, Kanauri *stis*, Garo *sni*, Kachin *sənit*, Burmese *hnats*, Sgaw *nwi*, Taungthu *nöt*, Gurung *ñi*, the ancient Zhang-zhung *snis*, and perhaps even Old Chinese **tshyet* "seven."² None of these

¹ Middle Chinese **bhywan* "barbarian" may in fact be a loanword from Old Tibetan *bon* "shamanic religion" or a related word in one of the Hsi-fan languages.

² Another apparent innovation in Tibetan is the word *khyod* "you" and its cognates, as opposed to **nañ* "you" and its cognates found in other related languages—for example, Chepang *nañ*, Kachin *nañ*, Burmese *nañ*, Lushei *nañ*, Sgaw *na*, Pwo *na*, Dhimal *na*, Nung *na*, Phunoi *nan*, Bisu *nañ*, Akha *naw*, Mpi *noñ*, Rgyarong *no*, Minyag *na*, and perhaps Old Chinese **ñyo* and **ñia* "you." Compare Old Tibetan *ñid* "you (elegant)" New Tibetan (Sherpa) *ñipo* <*ñid-po*> "you."

Interestingly, another apparent Tibetan innovation is *rta* "horse" and its cognates, as opposed to **srāñ~mrāñ* found elsewhere—for example, Chepang *srāñ*, Kachin *kumrāñ*.

languages is a Tibetan dialect, however closely related it may otherwise be to Tibetan. But when we find Balti *bdun*, Purig *rdun*, Ladakh *dun*, Golok *wdən*, Amdo *din*, and Lhasa City *tün* "seven," we know we are dealing with a series of DIALECTS within the Tibetan language.

2. TIBETAN AND RELATED LANGUAGES

When we say Tibetan is related to another language—say, Burmese or Chinese—we mean that the languages are both descendants of an earlier language no longer in existence. Frequently such a hypothetical ancestor is proposed to account for many such offspring; this common ancestor is then often named after those two of its descendants with the oldest written records—for example, Proto-Tibeto-Burman, which is the hypothetical language from which all Tibeto-Burman languages have come, or Proto-Sino-Tibetan, which is the hypothetical language from which have come not only the Tibeto-Burman languages but Chinese as well.

When comparing languages to see if they are related, random correspondences of words of course prove nothing. The apparent cognates could just be accidental: compare Tibetan *rgyal* "king" with English *royal~regal*. More frequently such apparent cognates are loan words, in one direction or the

Burmese *mrañ*, Kanauri *rañ*, Manchati *hrañ*, Bunan *šrañs*, Haka *rañ*, Lisu *amu*, Phunoi *mon*, Bisu *zamōñ*, Akha *mah*, Mpi *myuñ*, Rgyarong *bro~mbro*, and perhaps Old Chinese **mɔ* "horse." However, in several archaic texts from Central Asia, we find, to our delight, alongside Old Tibetan *rta* "horse," the word *rmañ*, which apparently means something very much like "horse"—for example, in a mythological text from the caves near Tun-huang, in the couplet *rta-skad ni tsher-tsher, rmañ-skad ni tsher-tsher* "In horse language, yes, *tsher-tsher!* in steed language, yes, *tsher-tsher!*" or in the couplet *rta bzugs ni gnam-la bzugs, rmañ bzugs ni dguñ-la bzugs* "The horse dwells, yes, dwells in the sky; the steed dwells, yes, dwells in the heavens," or, again, *rta ni log-pa tshe, rmañ ni mkhris-pa tshe* "The horse, yes, his revulsion was great; the steed, yes, his bile was great." In the administrative correspondence recovered from the Tibetan garrisons in Central Asia, we find, as we might expect, frequent references to horses, but almost always as *rta*. Still, the word *rmañ* lingers in the collocation *rmañ-rogs* "horse attendant → groom," and, perhaps, in the proper name *rmañ-sbyin* "Horse Giver." By the time of the classical texts the word *rmañ* has disappeared entirely. It seems clear that this Old Tibetan *rmañ* is related to Proto-Tibeto-Burman **mrañ* "horse," and was replaced by Old Tibetan *rta* "horse" during the seventh century—in effect, before our eyes.

other: this might be the case with words such as classical Tibetan *dža* Middle Chinese **jha* "tea," or classical Tibetan *džag* Middle Chinese **dzhək* "robbery," where, as one Sinologist has put it, too close a likeness is even more suspect than too distant a one. But what makes it likely that, say, Tibetan and Chinese are related languages is a SYSTEMATIC correspondence among their words—for example, the fact that in both languages the word for "I" (Old Tibetan *na*, Old Chinese **ña*) and "five" (Old Tibetan *l-ña*, Old Chinese **ño*) both have velar nasal initials, or the word for "three" (Old Tibetan *g-sum*, Old Chinese **səm*) and "kill" (Old Tibetan *səd*, Old Chinese **sat*) both begin with a dental fricative. It is only on such a systematic basis that we are justified in assuming that Tibetan and Chinese derive from a common ancestor.

Technically speaking, the only way actually to demonstrate that two or more languages are cognate descendants of a common ancestral language is to reconstruct the common language from which they descended. Such reconstructions have been cited as the most triumphal vindication of Indo-European comparative linguistics. Yet similar attempts to reconstruct earlier stages of Tibetan and related languages have encountered serious difficulties.

*You know ek, that in forme of speche is chaunge
Withinne a thousand yer, and wordes tho
That hadden prys now wonder nyce and straunge
Us thenketh hem, and yet they spake hem so,
And spedde as wel in love as men now do.*

—Geoffrey Chaucer,
Troylus and Criseyde

For one thing, such reconstructions must take account of literally hundreds of related languages—overwhelmingly unwritten and, until recently, poorly recorded and described. For another, the words which are being compared in these language are remarkably compact. For example, we find classical Tibetan *grog-ma*, Burmese *pərwak* "ant." Are these words cognate? Additional comparisons from other languages do not seem immediately helpful: Rgyarong *korok* and Kiranti *khorok* seem related to the Tibetan *grog*, while Lahu *puyɔ?*, Lisu *bawlaw*, and Mpi *piho?* seem related to the Burmese

parwak. Yet we also find Miri *taruk*, Dafla *torub*, and Nung *sərɔ*. What are we to make of this?

One proposed solution postulates a Tibeto-Burman word **rwak* "ant," to which Lahu and Burmese added a prefix **p-* related to the word for "insect" (compare, for example, classical Tibetan *nbu*, Burmese *pui*, Mpi *pi* "insect"); to which Tibetan, Rgyarong and Kiranti added a **k-* "ANIMAL" prefix; to which Nung added an **s-* "ANIMAL" prefix (compare, for example, Old Tibetan *śwa*, Burmese *sa*, Kachin *śan*, Nung *śa*, Kanauri *śya* "deer"); and to which Miri and Dafla added a late **d-* prefix of uncertain signification. Now such explanations can quickly become uncomfortably *ad hoc*, and there is often an unexplained residue in any event; for example, we are still left to account for Gurung *nabbru* "ant."³ But such are the challenges faced by the Tibeto-Burman comparativist.

2.1. TIBETAN AND CHINESE

Scholars have long suspected that Tibetan is related to Chinese, and have postulated a Sino-Tibetan family of languages descended from a hypothetical Proto-Sino-Tibetan ancestor. The relationship between Tibetan and Chinese, however, is certainly not obvious if we compare contemporary Tibetan with contemporary Chinese. In Peking city the old word for "dog" is pronounced *tshüan* but in Lhasa city is pronounced *chi*, while a Peking fish is called *yü* but a Lhasa fish is called *ña*.

But thanks to the extraordinary conservatism of Tibetan writing on the one hand, and the scholarly detective work of such Sinologists as Bernhard Karlgren on the other, we can reconstruct these same words in Old Tibetan and Old Chinese:⁴ when we compare Old Tibetan *khyi* with Old Chinese

³ Unlike many words in Gurung, *nabbru* does not appear to be a loan word from Nepali, where the word for "ant" is *kamilo*. Nepali is an Indo-Aryan language not very distantly related to Hindi.

⁴ Languages are dated from the first appearance of writing: thus the earliest Tibetan records are said to be in Old Tibetan, and the earliest Chinese records in Old Chinese. (Forms reconstructed for a period prior to the appearance of writing are said to be in the proto-language—Proto-Tibetan, say, or Proto-Chinese.) But Chinese was first written much earlier than Tibetan was, so Old Chinese is older than Old Tibetan; in fact, Old Tibetan is

**khywen* "dog" and Old Tibetan *ña* (from an even older Proto-Tibetan **ñya*) with Old Chinese **ñyo* "fish," the similarities between the two languages become much more striking. In the same way, other correspondences have been proposed—for example, Old Tibetan *ni* Old Chinese **ñyet* "sun," Old Tibetan *mig* Old Chinese **myok* "eye," Old Tibetan *ma* Old Chinese **ñyag* "ear," Old Tibetan *sñ* Old Chinese **syen* "firewood," Old Tibetan *lña* Old Chinese **ño* "five," Old Tibetan *gsum* Old Chinese **səm* "three."

Let us assume, then, on the basis of such partial evidence, that Tibetan and Chinese are descended from a common ancestor. Is there any way of telling how long ago it was that Tibetan and Chinese were, in some sense, the same language? Archeological finds indicate that human beings first appeared in northern China around 10,000 BC, in all likelihood having come eastward from the frozen tundras of Siberia, where they had survived and adapted through the most recent of the recurrent ice ages; by 5,000 BC neolithic culture had appeared on the fertile northern plains of China, which then developed with remarkable continuity and coherence directly into historical times, with a language we have every reason to believe was already distinctively Chinese. These speakers of Chinese continued to spread from the middle Yellow River area toward the southern and eastern coasts—an extension even now in progress.

If the Chinese language split off from the common stock somewhere between 10,000 and 5,000 BC, then the Chinese and Tibeto-Burman language groups may simply have been separated too long, and their descendants simply have changed too much, to permit any convincing reconstruction of their common source; but a reconstruction of Proto-Sino-Tibetan is so challenging a prospect that such efforts are not likely to stop.

2.2. TIBETAN AND BURMESE

The Burmese language was first written down, on inscriptions, using an adaptation of the Mon orthography, around 1112. This writing system was later replaced by a form of Sinhalese script, also derived from an Indic prototype, and by about 1500 the Burmese writing system had taken on more

contemporaneous with Middle Chinese, so that we speak, say, of seventh-century Middle Chinese words borrowed into Old Tibetan. Here we compare Old Tibetan with Old Chinese, since we want to compare the earliest available forms in each language.

or less its present form. The writing, like that of Tibetan, is conservative, and presumably reflects the phonological state of the language at about the time the orthography was fixed; that language in turn differs in some significant ways from modern "standard" Burmese, spoken throughout the Irrawaddy plain and delta, in Upper and Lower Burma, by more than thirty million people.⁵

The relationship of Tibetan and Burmese—and closely related languages such as those grouped together as Lolo—is only slightly more apparent than the relationship of Tibetan and Chinese. A dog in Rangoon is *khwei*, and, as we travel through Southeast Asia, we find Lahu *kwe*, Phunoi *kha*, Bisu *khɔ*, Akha *akui*, Mpi *khɔ*, but in Lhasa city a dog is *chi*. Similarly, a Rangoon fish is *ñā*, and we find Lahu *ñā*, Lisu *ñwa*, Akha *ñā*, Mpi *ño*, but in Lhasa city a fish is *ñā*—a nasal initial, but, apparently, in the wrong part of the mouth.

However, when we compare the older written forms in Tibetan and Burmese, even a cursory inspection reveals systematic correspondences between the two languages much more extensive than those between either language and Chinese. Thus we can, again, compare Old Tibetan *khyi* "dog" to Proto-Burmese **khuy*, and Proto-Tibetan **ñya* "fish" to Burmese *ñā*. Among the many cognates that have been proposed, we may note Old Tibetan *ñi* Burmese *ne* "sun," Old Tibetan *myig* Burmese *myak* "eye," Old Tibetan *ma* Burmese *na* "ear," Old Tibetan *ñin* Burmese *sats* "firewood," Old Tibetan *lña* Burmese *ñā* "five," Old Tibetan *gsum* Burmese *sum* "three."⁶

⁵ For the divergence of the spoken and written forms, note—randomly—modern standard Burmese *mwei* <*mrwe*> "snake," *ñwei* <*hrwe*> "gold," *an* <*sam*> "iron," *myi?* <*mrats*> "river," *thamin* <*hta zmañ*> "cooked rice," *shaa* <*htsan*> "husked rice," *nei* <*ne?*> "sun," *myin* <*mrañ*> "horse," as well as *pan* <*pan*> "flower," *mi* <*mi*> "fire," *na* <*na*> "ear," *hna* <*hna*> "nose," *ñwei* <*ñwe*> "silver."

⁶ Apparent cognates in Old Tibetan and Burmese are not hard to find. A few minutes with a dictionary will turn up Old Tibetan *tshwa* Burmese *tsha* "salt," Old Tibetan *sku* Burmese *kaiy* "body," Old Tibetan *dgu* Burmese *kui* "nine," Old Tibetan *gri* "knife" Burmese *kre* "copper," Old Tibetan *BGRE* "grow old" Burmese *kri* "be great," Old Tibetan *byi* Burmese *pwe* "rat," Old Tibetan *bya* "bird" Burmese *pya* "bee," Old Tibetan *gšig* Burmese *tats* "one," Old Tibetan *ña* Burmese *ña* "I," Old Tibetan *gnis* Burmese *hnais* "two," Old Tibetan *sna* Burmese *hra* "nose," Old Tibetan *mye* Burmese *mi* "fire," Old Tibetan *smyig* Burmese *hnyats* "bamboo," Old Tibetan *SAD* Burmese *sat* "kill," Old Tibetan *gzigs* Burmese *sats* "leopard," Old Tibetan *zla* Burmese *la* "moon," Old Tibetan *ri* "painting" Burmese *ri* "write."

There can be no doubt that Tibetan and Burmese are related, or that Burmese in turn is related to a number of other Southeast Asian languages, in what is commonly called the Tibeto-Burman family—here, once again, named after the two members of the family with the oldest written records. In this family, in addition to Tibetan and Burmese, there is in fact a vast complex of languages, stretching from the northern reaches of Assam and Burma westward along the Himalayas, eastward into southern China, and southward along the Salween and Irrawaddy Rivers to the Bay of Bengal. These regions constitute one of the most linguistically diverse areas of the world; it is still very difficult to get a clear picture of the relationships of the various languages and dialects, not only within the Tibeto-Burman family, but also in terms of the areal and borrowing relationships between the Tibeto-Burman languages and the unrelated Thai and Mon-Khmer languages with which they have long been in contact.

The cultural diversity of this area is equally striking. Speakers of Tibeto-Burman languages include goat herders in the mountains of Nepal, former head hunters along the Indo-Burmese frontier, naked tribes in the jungle hills of Assam, as well as the Tibetans and Burmese, who built successful Buddhist kingdoms and literate cultures which have survived to the present day.⁷ The

Some of these Tibetan and Burmese forms correspond even more closely if we look at the orthography of the oldest dated Burmese inscription—the inscription of Prince Rajkumar, dated 1112, often called the Myazedi Inscription because it was found on the *mya zedi* "Emerald Pagoda." Here we find Burmese *se* "die" written <*siy*>, *ri* "water" written <*riy*>, and *pe* "give" written <*piy*>. Presumably Proto-Burmese **iy* > Burmese *e*, and we can compare Old Tibetan *ñi* "sun" with Proto-Burmese **niy* rather than with Burmese *ne*, Old Tibetan *gri* "knife" with Proto-Burmese **kriy* rather than with Burmese *kre*, Old Tibetan *tsi* "die" with Proto-Burmese **siy* rather than with Burmese *se*, and Old Tibetan *sbyin* "give" with Proto-Burmese **piy* rather than with Burmese *pe*. Similarly, we find Burmese *hrwe* "gold" written <*hruy*>, *mwe* "nourish" written <*muy*>, and *zañshe* "kin" written <*zañuy*>. Presumably Proto-Burmese **uy* > Burmese *-we*, and we can compare Old Tibetan *dñul* "silver" with Proto-Burmese **ñuy* rather than with Burmese *ñwe*, Old Tibetan *sbrul* "snake" with Proto-Burmese **mruy* rather than with Burmese *mrwe*, and Old Tibetan *agur* "crooked" with Proto-Burmese **kay* rather than with Burmese *kwe*.

⁷ Other speakers of Tibeto-Burman languages also had states, primarily on the Hindu model, in the valleys around the edges of South Asia—the Newari in Kathmandu; the Meithlei in Manipur; the Lushei in the Mizo area; the Tripuri in Tripura; the Pyu in Burma, conquered by the Burmese; and the Bodo or Kachari in central Assam, conquered by the Dai Ahom.

generally accepted picture is that this entire area was occupied by an originally southward movement of Tibeto-Burman-speaking peoples along the great Irrawaddy and Salween river basins, which carry the waters of the Himalayas to the sea. Such southward migrations, perhaps prompted by periodic dessication of the Inner Asian plains, presumably began from the same point from which another group had moved eastward into the fertile plains of north China; and from secondary diffusion centers along the way there occurred further migrations westward along the great arc of the Himalayas, southward deeper into Burma, and eastward into northern Thailand and Laos, with the languages diverging, interacting, and borrowing from each other, and interacting as well with the unrelated Mon-Khmer and Thai languages whose speakers were both being displaced and migrating themselves.

2.3. TIBETAN AND THE HIMALAYAN LANGUAGES

Scattered along the arc of the Himalayas, like beads on a string, are a number of more or less related languages, usually called—for want of any more informative name—the Himalayan languages. The relations among these languages are not at all clear; for example, Newari, the historically important language of the old kings of Kathmandu, apparently cannot be grouped directly with any other of these Himalayan languages; and the remainder tend to be classified in primarily geographic groupings, with names like West Central Himalayish, on the assumption that human occupation of the Himalayan valleys proceeded linearly, from east to west, so that more closely related languages would tend to cluster geographically as well. I am not at all persuaded that this picture is correct; but I certainly have nothing better to offer.⁸ What does seem clear is that, among these Himalayan languages, some—Tamang, Gurung, Thakali, Magar, Kiranti—seem quite closely related to Tibetan.

⁸ Speakers of several of these Himalayan languages have traditionally been the source of recruits for the British Gurkha forces. Nepali, the dominant language of Nepal, came to be the *lingua franca* of the Gurkha forces at brigade posts of the Indian Army throughout India and of the British Army in Hong Kong and Malaysia. Glover has noted that Gurung children returning to Nepal from military posts can converse with their village relatives only in Nepali while the latter converse among themselves in Gurung. Nepali is an Indo-Aryan language related to Hindi; and, although unrelated to the Himalayan languages, Nepali loanwords have thoroughly infiltrated the Himalayan lexicons.

In 1927, Sten Konow, of the Linguistic Survey of India, distinguished between "complex pronominalized" and "non-pronominalized" Himalayan languages, with the pronominalized languages further subdivided into eastern and western branches. The pronominalized languages fuse subject and object pronouns to the verb, where they appear as prefixes and suffixes, yielding in effect a verbal inflection for both subject and object: for example, in Limbu, the language of the principal tribal people of eastern Nepal, we find the verb forms *hiptūn* "I hit him," *hipne* "I hit you," *khiptū* "You hit him," *hiptū* "He hits him," *khiptī* "He hits you," *āhiptūm* "We hit him," *khiptūm* "You all hit him," and so on.⁹

Konow believed that the pronominalized languages had borrowed this syntactic device from neighboring speakers of the entirely unrelated Munda languages. Such syntactic borrowing is not in itself impossible; in this case, however, it seems unlikely, for two reasons. First, the Munda verbal inflection system is very different in its basic structure from that of the pronominalized Himalayan languages studied by Konow; one would expect a greater similarity in structure—even if not in content—if the syntactic device had in fact been borrowed. Second, the Himalayan verbal inflections are quite similar among themselves, even between geographically distant languages, to the point where it appears possible to reconstruct a Proto-Himalayan verb system.¹⁰ Such a proposed reconstruction would presumably place the development of the proto-inflectional system prior to any contact with Munda speakers. In any event, it seems both possible and plausible that the development was an internal one.

Many of these Himalayan languages, such as Newari, do not at first glance seem closely related to Tibetan; others—especially those in the Tamang-Gurung-Thakali group—appear strikingly similar not only in basic portions

⁹ This distinction cuts across geographical lines. Eastern pronominalized languages include Limbu, Rai, Chepang, and other groups in eastern and central Nepal; western pronominalized languages such as Kanauri are spoken primarily in the mountain areas of northwestern India outside Kashmir. Nonpronominalized languages include Gurung, Magar, Newari, and Lepcha or Rong, among others; these are distributed from the north of western central Nepal across to eastern Nepal and adjacent areas of India.

¹⁰ Indeed, some scholars have gone so far as to suggest not that the pronominalized Himalayan languages idiosyncratically acquired their inflections, but rather that the non-pronominalized languages lost the inflections they once had.

of their vocabulary but in syntax as well. For example, compare Gurung *khi-e tshami ña-e tshai-lai pin-n* "Give your daughter to my son" with Old Tibetan *khyod-kyi tsha-mo ñai tsha-la shyin* New Tibetan (Lhasa) *khör-e tshamo ñe tsha-la cin* "Give your niece to my nephew."¹¹ Note too the following apparent cognates—Old Tibetan *ñi* Kham *nimi* Limbu *nam* Gurung *din* "sun," Old Tibetan *mig* Kham *mi* Limbu *mik* Gurung *min* "eye," Old Tibetan *ma* Kham *na* Limbu *nekho* Gurung *na* "ear," Old Tibetan *śin* Kham *sin* Limbu *sūg* Gurung *sin* "firewood," Old Tibetan *gsum* Kham *sohn* Limbu *sumsi* Gurung *son* "three," Old Tibetan *ltse* Kham *se* Limbu *lesot* Gurung *le* "tongue."¹²

Such cognates must, of course, be distinguished—somehow—from loanwords. There is every reason to believe, for example, that Old Tibetan *tshos* New Tibetan (Dbus) *tshö* "dharma" Gurung *tshyoe* "religious book" is a relatively recent loan. Note also other apparent loans in the same cultural sphere—Old Tibetan *bla-ma* New Tibetan (Dbus) *lama* Gurung *lamaa* "lama" (compared to the apparently genuine cognate Old Tibetan *bla* Gurung *pla* "soul"), Old Tibetan *luñ-rtä* New Tibetan (Dbus) *luñta* Gurung *luñta* "prayer flag," Old Tibetan *sño* New Tibetan (Dbus) *ño* "bless, pronounce benediction" Gurung *ño* "blow upon a sick person (by religious officiant)," Old Tibetan *rná* New Tibetan (Dbus) *ña* Gurung *ña* "shaman's drum."

2.4. TIBETAN AND THE WESTERN BARBARIANS

The Chinese historical records speak of nomadic and barbarian inhabitants of the high plains to the west, called, first, **khyāñ* > *ch'üang* "sheepherders" (the graph represents a man and a sheep), and, later, **bhywan* > *fan* "barbarians," a word which may in fact have been borrowed from Old Tibetan *bon* "shamanic religion" or a related word in one of the Hsi-fan

¹¹ Gurung *tsha* "son" Old Tibetan *tsha* "nephew, grandchild" appear to be genuinely old Sino-Tibetan words: we find, for example, Di-nal *tšan* "son," Tsangia *za-sa* "child, baby," Burmese *sa* "child," Lushei *tu* "grandchild, nephew," and perhaps also Old Chinese **tsyag* "son, daughter, child." Note also Old Tibetan *BTSA* "bear, bring forth," and perhaps Old Chinese **dzög* which Karlgren interprets as having originally meant "foetus."

¹² Kham (not to be confused with the Khams dialects of Tibetan) is spoken in west Nepal by Magars of the Buda, Gharti, Pun, and Rokha subtribes; Limbu is spoken in east Nepal; and Gurung is spoken in the Gandaki zone in central west Nepal.

languages. The annals of the Han Dynasty note the existence of one group of **khyāñ*, located far from China, called the **pywat-khyāñ*, a term in which we may perhaps see a relationship with Old Tibetan *bod* "Tibet."¹³ Later, during the T'ang dynasty, the Chinese distinguished between the **tho-bhywan* > *t'u-fan* "agricultural barbarians," a term which came to be used regularly for the Tibetans, and the **syər-bhywan* > *hsı-fan* "western barbarians," a loosely defined group of nomadic tribes ranging the plains in what is now the Amdo region.¹⁴ The Tibetans drew the same distinction between themselves and these other nomads, even though the ways of life of the Tibetan and Hsi-fan nomads were basically the same; the Tibetans speak of the Horpa, the Minyag, the eighteen tribes of the Rgyarong as not speaking the Tibetan language, although these languages have clearly borrowed a large number of words from central Tibetan.

In fact, the influence of central Tibetan on these languages has been so great that they have frequently been considered to be Tibetan themselves; note, however, Rgyarong *snyis*, Horpa *zne*, Minyag *šan* "seven" instead of Old Tibetan *bdun* "seven" and its New Tibetan reflexes, Rgyarong *no*, Horpa *ni*, Minyag *na* "you" instead of Old Tibetan *khyod* "you" and its New Tibetan reflexes, Rgyarong *pram*, Horpa *phrū-phrū*, Minyag *phri* "white" instead of Old Tibetan *dkar* "white" and its reflexes. The relationship between these languages and Tibetan, however, is clearly a close one: for example, in the Rgyarong dialect of Lcog-rtse, we find Old Tibetan *ma* Rgyarong *ma* "ear," Old Tibetan *šin* Rgyarong *syiŋ* "firewood," Old Tibetan *mig* Rgyarong *mnyak* "eye," Old Tibetan *diul* Rgyarong *ngiy* "silver," Old Tibetan *gñis* Rgyarong *nis* "two." But we must, as always, be wary of possible loan words, especially, here, from written Tibetan texts. A correspondence as close as Old Tibetan *ldžañ-gu* Rgyarong *ldžañ-ku* "green" is sufficient to arouse suspicion; but

¹³ I think it is pretty clear that *bod* "Tibet," *bon* "shamanic religion," *bo* "call out, cry out," and perhaps *pho* "change place, migrate," *spo* "remove, shift, migrate," *dhon/sbon* "descendant, nephew, grandchild," *npiyo* "range, roam about," form what we will later in this text call a word family.

¹⁴ The Old Tang History has a chapter on Tu-fan, and cites the recognizably Old Tibetan words *btsan-po* "king," transcribed as Middle Chinese **tsan-phwo*, and *blon* "minister," transcribed as Middle Chinese **hywen*, as native Tu-fan words. The New Tang History, in its parallel chapter on Tu-fan, gives a more extensive vocabulary list of Tibetan government officials, and similarly transcribes Old Tibetan *btsan-po* "king" as Middle Chinese **tsan-phwo* and Old Tibetan *blon* "minister" as Middle Chinese **hywen*, using the same Chinese characters; but here the language is cited as being that of the **khyāñ*.

when we find Old Tibetan *stag* Rgyarong *khuñ* "tiger" but *stak* "tiger" in the Lcog-rtse dialect, or Old Tibetan *dbyar-ka* Rgyarong *tsar* "summer" but *dbyar-ke* in the Chos-kia dialect, it is reasonable to believe we have found an informant with a literary education.

3. VARIATION IN TIBETAN

If Tibetans from different parts of Tibet are asked to give their word for "hair," a Tibetan from Purik will say *skra*, one from Amdo will say *škyā*, one from Kham will say *štra*, one from Tao-fu will say *stra*, and one from Bhutan or Sikkim will say *kya*. Similarly, a Ladakhi will say *ṣa*, a rural Central Tibetan will say *ta*, and an upper-class resident of Lhasa City will say *tṣa*. But if these Tibetans are literate, and are asked to write the word they had just spoken, they will all produce the same written form, which we here transcribe as <*skra*>. And, if they are shown the written form <*skra*>, they will, again, pronounce the word differently, but they will all recognize the form and agree that—however it is pronounced—it means "hair."

One reason for this is the remarkable conservatism of the Tibetan writing system. The written form <*skra*>, for example, with the same meaning "hair," can be found in manuscripts more than a thousand years old, preserved in the deserts of Central Asia, which can still be read—in some sense of that term—by any literate Tibetan.¹⁵ The written form has remained unchanged; the word represented by that form has come to be—or has continued to be—different in different dialects. The advantage of such uniform orthography is its transcendence of regionalism: all literate Tibetans share a single written language, however different their spoken dialects may be. The disadvantage is the divorce between the written and spoken languages, making literacy an increasingly difficult and elite accomplishment.

Now when Tibetan was first reduced to writing, it seems reasonable to assume that the written form <*skra*> was, in fact, an attempt to render a word pronounced something very much like *skra*. We thus find variation in

¹⁵ For example, in a mythic text from the caves near Tun-huang we find *dbu-skra* *bdun . . . nbrog-srin dre-das ntsald* "The fiend of the wastes, Dre-da, demands seven hairs from his head." Again, in a prosaic administrative memorandum from a Tibetan oasis garrison in Central Asia, reporting on the collection of animal hair for rope-making, we read *bzer-gis phyugs nga skra srañ phyed gyis* "Bžer has made a half *srañ* of hair of some animals."

the Tibetan language along two dimensions. The language varies along a DIACHRONIC dimension, wherein a word pronounced *skra* in the ninth century has come to be pronounced, say, *ta* in the twentieth; and the language varies along a SYNCHRONIC dimension, wherein a word now pronounced *sa* in Ladakh is pronounced *stra* in Kham, or pronounced *ta* by a Lhasa City storekeeper is pronounced *tsa* by a Lhasa City aristocrat.¹⁶

When we speak of the history of the Tibetan language, we will use the term PROTO-TIBETAN to refer to the Tibetan language spoken before the existence of any written records. We will use the term OLD TIBETAN for the language spoken during the earliest period for which written records exist—that is, more or less arbitrarily, for the language spoken, say, from the seventh to the tenth centuries, which is the language upon which those earliest written texts were based. The term MIDDLE TIBETAN will refer to the language spoken from the tenth to the nineteenth centuries, a period for which we have an awesome quantity of written materials, but about whose spoken language we can make only scattered inferences. Finally, the term NEW TIBETAN will refer to the spoken language for which we have modern contemporaneous transcriptions and analyses, beginning in the nineteenth century with the first European explorers and missionaries.¹⁷ When we speak of synchronic variation, we will adopt the convention of citing forms by historical period followed by a parenthetical indication of dialect where such information is available—for example, Old Tibetan *bdun* but New Tibetan (Dbus) *dün* “seven,” Old Tibetan *myi* but Old Tibetan (Sumpa) *mu* “man.”

3.1. VARIATION IN NEW TIBETAN

When a Tibetan from Ladakh and a Tibetan from Lhasa City go to the

¹⁶ Diachronic variation, of course, occurred as well before the earliest written texts. Where we find Kanauri *kra* and Kachin *kara*, for example, we can hypothesize an earlier Proto-Tibetan **kra* “hair,” to which was prefixed the formative **sa* “ANIMAL”—thus Proto-Tibetan **sa-kra* “ANIMAL hair” > **s-kra* > Old Tibetan *skra* “hair.” And synchronic variation occurred at historical periods other than the modern. There is some textual evidence, for example, that, alongside Old Tibetan (Lhasa) *myi* “man,” there was an Old Tibetan (Sumpa) *mu* “man” as well.

¹⁷ Note that these terms are really methodological rather than properly linguistic. The classification depends upon the fortuitous existence of written records on the one hand and modern transcriptions on the other. Middle Tibetan simply includes everything in between.

market together to buy vegetables, the Ladakhi is shopping for *tshodma* but the Lhasan for *tshē*. If they buy spinach, the Ladakhi calls it *palak* and the Lhasan calls it *potsé*. If they buy peas, the Ladakhi calls them *ṣanma* and the Lhasan calls them *tenma*. When they pay, the Ladakhi calls the rupee coin *kyirmo* and the Lhasan calls it *komo*. Are they speaking the same language? They will both say they are speaking Tibetan; but the Ladakhi will call the language *potskat* and the Lhasan will call it *phöke*.

Even if we look just at the lexicon, leaving grammar aside, the relationship between the two dialects is complex. For example, continuing with vegetables, we find Ladakhi *labuk* and Lhasa *lapu* “radish” < Old Tibetan *la-phug*, where the word is recognizably the same in both dialects;¹⁸ and, similarly, we find Ladakhi *tsoñ* and Lhasa *tson* “onion,” although in this case the word gives every appearance of having come into Middle Tibetan from Middle Chinese **tshuñ* “onion,” rather than of being a native Tibetan word. On the other hand, we find Ladakhi *ṣanma* and Lhasa *tenma* “peas” < Old Tibetan *sran-ma*, where a common origin of the word in Old Tibetan is less obvious, but the differences in pronunciation are the result of more or less regular phonological changes in each dialect.¹⁹ Ladakhi *gobi* and Lhasa *kopi* “cauliflower” appear alike not because the words have a common Old Tibetan origin, but because the two dialects have recently—and apparently independently—borrowed the Hindi word *phul gobhi* “cauliflower.” The Lhasa dialect uses the compound *konlapu* <*guñ la-phug*> “middle finger radish → carrot,” while Ladakhi uses the term *sarakturman* “carrot,” almost certainly borrowed in part from Urdu *zardak* “carrot.”²⁰

¹⁸ The radish—although certainly not a literary staple—does crop up in some genuinely ancient texts. For example, a ninth-century administrative memorandum from a Tibetan garrison in Central Asia, written on a strip of wood, apparently listing expenses incurred, includes *spreu lo-la sku-bla gsol-bai lha-phug rin* “for the monkey year, the cost of radishes for entertaining the nobles.”

¹⁹ Thus we find not only Old Tibetan *sran-ma* “peas” > New Tibetan (Ladakh) *ṣanma* (Lhasa) *tenma*, but also Old Tibetan *skra* “hair” > New Tibetan (Ladakh) *ṣa* (Lhasa) *ta*, Old Tibetan *spring* “cloud” > New Tibetan (Ladakh) *ṣin* (Lhasa) *tin*. Similarly, Old Tibetan *skad* “language” > New Tibetan (Ladakh) *skat* (Lhasa) *ke*, Old Tibetan *žal* “face” > New Tibetan (Ladakh) *žal* (Lhasa) *ße*, Old Tibetan *mishan* “name” > New Tibetan (Ladakh) *tshan* (Lhasa) *tshev*.

²⁰ The second half of the Ladakhi *sarakturman* “carrot” is not so easy. My best guess is that it is derived from Urdu *darman* “medicine,” but the semantics are certainly not obvious.

It is thus clear that contemporary Tibetan is not monolithic; the languages which by our definition qualify as "Tibetan"—note Lhasa City *tün* Ladakhi *dun* "seven"—are phonologically, lexically, and syntactically divergent. Such languages we call DIALECTS of New Tibetan.²¹

"Ever'body says words different," said Ivy. "Arkansas folks says 'em different, and Oklahoma folks says 'em different. And we seen a lady from Massachusetts, an' she said 'em differentest of all. Couldn' hardly make out what she was sayin'."

—John Steinbeck,
The Grapes of Wrath

Now what we really need is a genuine dialect map of Tibet, marked with ISOGLOSSES of significant linguistic features, such as different pronunciations of the same word, or the use of different words for the same thing. For example, in traveling westward from Lhasa City to Ladakh, we find, at some point, that people have stopped saying *ta* "hair" and have started saying *sa*, have stopped saying *phö* "Tibet" and started saying *pot*, have stopped saying *ke* "language" and started saying *skat*, and have stopped saying *konlapu* "carrot" and have started saying *sarakturman*. For each of these differences, we can draw an isogloss: on one side of the line people say things one way; on the other side they say the same thing another way. Now of course the line between *phö* and *pot* may not coincide with the line between *ta* and *sa*,

²¹ The distinction between a dialect and a language is not often clear, and the distinction is frequently political rather than linguistic: Dutch, for example, is a language, but Yiddish is often called a dialect of German, which prompted Uriel Weinreich to define a dialect as a language without an army or navy. "Bhutanese" may thus be a language rather than a dialect by virtue of the fact that the independent kingdom issues its own postage stamps.

By the way, it is often the case that one dialect in a language is picked out as normative and other dialects stigmatized: in the case of Tibetan, the speech of Lhasa City is frequently put forward as the prestige dialect. It is not clear to me that this view is at all widespread outside of Lhasa City; the view is, however, found among those foreign linguists whose informants are from Lhasa, and among those foreigners whose work or sympathies lie with the Lhasa political or religious elite.

and the lines themselves may not be sharply drawn: along the isogloss, *phö* may fade into *pot* through an intermediate *phöt*, or some people may use both forms but in different styles of speech, or people in one social class may use one form and those in another social class use the other. Thus, when such lines are drawn, they often show considerable criss-crossing; when a number of isoglosses do more or less coincide, they are said to mark a DIALECT BOUNDARY.

Clearly we are far from even approaching such a dialect map of Tibet. But there are a few dialect features with which we can make a beginning, and which provide examples of the sorts of questions that still remain to be asked. The following sections will briefly discuss three phonological features of this sort in New Tibetan—the palatalization of labials, postinitials and the fronting of back vowels in the southern dialects, and elegant breathiness in Lhasa City.²²

3.1.1. The palatalization of labials

In central Tibet, Old Tibetan palatalized labials such as *by-* and *phy-* have generally become palatal affricates—for example, Old Tibetan *phyogs* “side” > New Tibetan (Dbus) *tsho* (Lhasa) *tshɔ*, Old Tibetan *bya* “bird” > New Tibetan (Dbus) *tṣa* (Lhasa) *tsha*, Old Tibetan *byañ* “north” > New Tibetan (Dbus) *tṣañ* (Lhasa) *tshan*. Old Tibetan *byi-ba* “rat” > New Tibetan (Dbus) *tṣiwa* (Lhasa) *tshwa*. These same changes are found eastward as far as Chamdo City, located at the upper reaches of what becomes, further south, the Mekong River; but, as we move even further east, across the Yangtze River to the city of Derge, we find that these same Old Tibetan palatalized

²² These topics were chosen because of the light they throw—even if indirectly—on the question of variation in Old Tibetan, which we will discuss in the next section. Thus we have not discussed the development of apparently phonemic tones in Lhasa City—both tone REGISTERS, with different tone heights developing from voiced and voiceless onsets in Old Tibetan, and tone CONTOURS, with different tonal shapes developing from syllable-final vowels, glides, and stops in Old Tibetan. Phonemic tone, of course, is found in many languages, especially in Southeast Asia, where tone has apparently spread among languages which are not genetically related, but only in geographical proximity. Moreover, tonal systems have apparently appeared and disappeared, and then appeared again, in particular language families. There is no reason to believe that Old Tibetan had tones; if Proto-Tibetan ever had phonemic tones, the system had disappeared long before historical times.

labials have become palatal fricatives—thus New Tibetan (Derge) *ṣo* “side,” *ṣa* “bird,” *ṣiwa* “rat.” We find these same palatal fricatives extending far to the northeast, in the Amdo country, where we find New Tibetan (Amdo) *ṣog* “side,” *ṣa* “bird,” *ṣaṇ* “north,” *ṣii* “rat.” But if we had gone north from Derge, instead of northeast, and had entered the Golok country, we would have found that the Old Tibetan palatalized labials had become not palatal fricatives but rather labiopalatal fricatives—thus New Tibetan (Golok) *ʃṣya* “bird,” *ʃṣaṇ* “north,” *ʃṣyo* “rat.” And if we had instead gone southeast from Derge to the city of Tao-fu—the Tibetan Tau or Ltao—we would have found that the Old Tibetan palatalized labials had become labiopalatal affricates before rounded vowels, but labial stops in front of spread vowels—thus New Tibetan (Tao-fu) *pṣo* “side,” *pha* “bird,” *piwa* “rat.” From the materials we have, these dialect differences appear fairly consistent—thus, for example, Old Tibetan *phyi-ba* “marmot” > New Tibetan (Dbus) *tshiwa* (Derge) *ṣewa* (Amdo) *ṣee* (Golok) *ʃṣyo* (Tao-fu) *phipa*. We can, apparently, draw fairly neat isoglosses for these features, separating Derge and Amdo from Tao-fu, from Golok, and from Chamdo and the central dialects. But it is not clear whether this neatness really exists in the material, or is simply an artefact of its paucity. Let us look at the same change elsewhere.

In western Tibet, we find the same change as in central Tibet—palatalized labials becoming palatal affricates—in the dialect of Ladakh, but not in the otherwise closely related dialects of Balti or Purik—thus, for example, Old Tibetan *bya* “bird” > New Tibetan (Balti) *bya* (Purik) *bia*, but (Ladakh) *tṣa* (Dbus) *tṣa* (Lhasa) *tṣha*, Old Tibetan *phyogs* “side” > New Tibetan (Balti) *phyox*, but (Ladakh) *tṣhoks* (Dbus) *tṣho* (Lhasa) *tṣhɔ*. We would therefore want to draw an isogloss grouping the western dialect of Ladakh with the central Tibetan dialects with regard to this one feature.

But the picture is even more complicated. In Ladakh—as opposed to the central dialects—Old Tibetan palatalized labials have failed to become palatal affricates before front vowels—thus Old Tibetan *phye* “flour” > New Tibetan (Balti) *phe* (Purik) *phe* (Ladakh) *phe*, but (Dbus) *tṣhe* (Lhasa) *tṣhe*, Old Tibetan *phyed* “half” > New Tibetan (Balti) *phed* (Purik) *phet* (Ladakh) *phyet*, but (Dbus) *tṣhe* (Lhasa) *tṣhe*. Note also that Old Tibetan *phyi-mo* “grandmother” > New Tibetan (Balti) *-pi* (Purik) *-pi* and Old Tibetan *phyi* “outside” > (Ladakh) *phi* but (Dbus) *tṣhi* (Lhasa) *tṣhi*. So our isogloss would group Ladakh with the central dialects with regard to the development of palatalized labials only in syllables with back vowels: in syllables with front

vowels, Ladakhi would remain with the other western dialects of Balti and Purik.

Finally, in Ladakh we find particular words—such as *tsindak* <*sbuin-bdag*> “patron” and *tshinan* <*phyi-bsnan*> “breakfast”—that appear to be exceptions to this latter rule, and in which palatalized labials have become palatal affricates before front vowels. Why is this? There are several possibilities, and no conclusions: it may be that the change from palatalized labial to palatal affricate is continuing to spread into syllables with front vowels, and that these few words are the first such lexical items to undergo this change, with more to come in the future; it may—perhaps more plausibly—be that these few lexical items are in fact loan words into Ladakhi from a prestige central Tibetan dialect.

3.1.2. Some southern isoglosses

The southern dialects of Sikkim and Bhutan show a change of Old Tibetan postinitial -*r*- to postinitial -*y*- after grave—that is, velar and labial—initials; the neighboring Sherpa dialect shows instead the same retroflex stops shown by the dialects of Central Tibet to the north. Thus we find Old Tibetan *skra* “hair” > New Tibetan (Gromo) *kya* (Bhutan) *kya* (Sikkim) *kya*, but (Sherpa) *ta* (Dbus) *ta* (Lhasa) *ta*, Old Tibetan *khrag* “blood” > New Tibetan (Gromo) *khyag* (Bhutan) *thyak* (Sikkim) *khyag*, but (Sherpa) *thak* (Dbus) *thak* (Lhasa) *tha*, Old Tibetan *sbrul* “snake” > New Tibetan (Gromo) *biu* (Bhutan) *beu* (Sikkim) *biu*, but (Sherpa) *drul* (Dbus) *dü* (Lhasa) *tü*. Presumably an isogloss for this feature could be drawn around the southern dialects, with Sherpa and the northern dialects on one side and the southern dialects on the other. Where, in the southern dialects, this change has not occurred—as when Old Tibetan *nbroñ* “wild yak” is represented by New Tibetan (Gromo) *doñ* (Sikkimese) *doñ* (Dbus) *doñ* (Lhasa) *ton*—it is reasonable to suspect that the word has in fact been borrowed by the southern dialects from one or more of the central dialects. This is especially so where the word denotes an item in the central, but not the southern, cultural repertoire.²³

²³ Of course, this distinction is not always clear. In Chamdo City, for example, we find Old Tibetan *nbras* “rice” > New Tibetan (Chamdo) *mbri* but Old Tibetan *sbrul* “snake” > New Tibetan (Chamdo) *drü*. I have no doubt that the Chamdo City word *drü* “snake” was borrowed from a central Tibetan dialect—compare, for example, New Tibetan (Dbus) *da* (Lhasa) *tü* “snake.” But why in the world would Chamdo City borrow the word “snake”?

But, again, things are really more complicated. In the central Tibetan dialects, dental syllable finals have largely disappeared. When such dental syllable finals existed, they caused preceding back vowels to move to the front of the mouth, presumably in anticipation of the following dental consonant. Any such front rounded vowels were without linguistic significance in Old Tibetan; but such vowels acquired significance in the central dialects as the dental finals that had caused them began to be lost. Thus, in these dialects, before what had been Old Tibetan dental finals, the back rounded vowels *o* and *u* have become, respectively, the front rounded vowels *ö* and *ü*—thus, for example, Old Tibetan *ños* “side” > New Tibetan (Dbus) *ñö* (Lhasa) *ñö*, Old Tibetan *lus* “body” > New Tibetan (Dbus) *lü* (Lhasa) *lü*. Similarly, the back spread vowel *a* has become either the front spread vowel *e*, or a new, somewhat lower, front spread vowel *ɛ*, depending on the dialect—thus, for example, Old Tibetan *las* “work” > New Tibetan (Dbus) *le* (Lhasa) *lɛ*.

Sherpa is different. In common with other southern dialects, Sherpa has not developed front rounded vowels before dental finals, but has retained the Old Tibetan back rounded vowels—thus, for example, Old Tibetan *yod* “exist” > New Tibetan (Bhutan) *yot* (Sherpa) *yot*, but (Dbus) *yö* (Lhasa) *yö*, Old Tibetan *dñul* “silver” > New Tibetan (Sikkim) *ñul* (Sherpa) *ñul*, but (Dbus) *ñü* (Lhasa) *ñü*, Old Tibetan *khyod* “you” > New Tibetan (Bhutan) *khyot* (Sherpa) *khyod*, but (Dbus) *tshö* (Lhasa) *chö*, Old Tibetan *yul* “country” > New Tibetan (Sikkim) *yul* (Sherpa) *yul*, but (Dbus) *yü* (Lhasa) *yü*, Old Tibetan *bdun* “seven” > New Tibetan (Bhutan) *dun* (Sherpa) *dun*, but (Dbus) *dün* (Lhasa) *tün*. An isogloss for front rounded vowels would thus run along a different route than would the isogloss for -*r*- > -*y*- after grave initials: the first isogloss would run north and west of the Sherpa settlements in Nepal, linking Sherpa with dialects to the east and west; the second isogloss would run east of the Sherpa country, linking Sherpa with dialects to the north.

But, again, there is more. In the southern dialects, as in the central dialects, the back spread vowel *a* does become fronted before dental finals, as opposed, say, to the western dialects, where such fronting does not occur—for example, Old Tibetan *bryad* “eight” > New Tibetan (Bhutan) *gyet* (Sikkim) *gye* (Sherpa) *gye* (Dbus) *dze* (Lhasa) *ce*, but (Ladakh) *rgyat* (Balti) *bgyad* (Purik) *rgyat*, Old Tibetan *skad* “speech” > New Tibetan (Sikkim) *ke* (Sherpa) *ked* (Dbus) *ke* (Lhasa) *ke*, but (Ladakh) *skat* (Balti) *skat* (Purik) *skat*. Thus the isogloss for the fronting of *a* before dental finals would follow

yet another route, linking together both the central and southern dialects, and separating them from the dialects to the west.

And we are not done yet. Bhutan appears generally to follow the southern pattern, with no front rounded vowels before dental syllable finals—thus New Tibetan (Sherpa) *ḍrul* (Bhutan) *beu* “snake,” (Sherpa) *yot* (Bhutan) *yot* “exist”; but note the exceptions—New Tibetan (Sherpa) *ñul* (Sikkim) *ñul*, but (Bhutan) *ñü* “silver,” (Sherpa) *yul* (Sikkim) *yul*, but (Bhutan) *yü* “country.” Once again we are left to wonder whether these exceptions are the first signs of a change beginning to spread through this portion of the lexicon, or loan words from a prestige central Tibetan dialect.

3.1.3. Elegant breathiness

Right around Lhasa City there should be an isogloss separating New Tibetan (Lhasa) *ka* from (Dbus) *ga* <*dga*> “joy,” (Lhasa) *ta* from (Dbus) *da* <*mda*> “arrow,” (Lhasa) *pu* from (Dbus) *bu* <*nbu*> “worm”; presumably this isogloss would pretty much coincide with the one separating New Tibetan (Lhasa) *khur* from (Dbus) *kur* <*gur*> “tent,” (Lhasa) *thep* from (Dbus) *tep* <*deb*> “book,” (Lhasa) *phö* from (Dbus) *pö* <*bod*> “Tibet.” In other words, in Dbus, the New Tibetan reflexes of Old Tibetan voiced initials—but only those originally without preinitials—have had their voice onset time delayed until they have fallen together with the New Tibetan voiceless initials. Such DEVOICING is, in fact, found in several New Tibetan dialects, although more sporadically than in central Tibet: compare, for example, Old Tibetan *gur* “tent” > New Tibetan (Golok) *kur* (Amdo) *kir* (Ladakh) *kur* (Dbus) *kur*, but Old Tibetan *mgo* “head” > New Tibetan (Golok) *go* (Amdo) *go* (Ladakh) *go* (Dbus) *go*.²⁴

²⁴ This devoicing apparently began with the voiced fricatives and gradually spread to other parts of the lexicon. The historian Ngos lo-tsā-ba Gzon-nu-dpal, in his *Deb-ther sñon-po*, quotes a letter from a Nepalese scholar addressing Bu-ston (1290-1364) as *śa-lu paññita*, rather than the correct *źa-lu paññita*, presumably writing the term as he had heard it pronounced. Gzon-nu-dpal himself, writing in 1478, noted that in his day *źa ni śa-dañ mñhun-pa . . . za ni sa-dañ mñhun-pa* “the graph <*ź*> is pronounced the same as <*s*> . . . and the graph <*z*> is pronounced the same as <*s*>.” The Si-tu mahāpaññita, in his monumental grammatical commentary *Mkhas-pai mgul-rgyan mu-tig phreñ-mdzes*, probably to be dated in 1744, simply listed *ź* and *z* as *sgra-med* “voiceless” sounds along with *s* and *s*.

In Lhasa City, however, the process has gone much farther than in other dialects: the New Tibetan reflexes of Old Tibetan voiced initials with preinitials have fallen together with the New Tibetan voiceless initials, and those without preinitials have had their voice onset time delayed even more, until they have fallen together with the New Tibetan aspirated initials—thus Old Tibetan *mgo* “head” > New Tibetan (Dbus) *go* but (Lhasa) *ko*, Old Tibetan *mda* “arrow” > New Tibetan (Dbus) *da* but (Lhasa) *ta*, Old Tibetan *gur* “tent” > New Tibetan (Dbus) *kur* but (Lhasa) *khur*, Old Tibetan *da* “now” > New Tibetan (Dbus) *ta* but (Lhasa) *tha*.

This “breathiness” is apparently perceived as characteristic of the prestige Lhasa City dialect. It is thus not surprising that, within that dialect, speakers seek to achieve elegance by being even breathier.²⁵ For such speakers, the New Tibetan reflexes of *all* originally voiced initials have fallen together with originally aspirated initials—thus Old Tibetan *mgo* “head” > New Tibetan (Dbus) *go* (Lhasa) *ko* (Lhasa elegant) *kho*, Old Tibetan *rdo* “stone” > New Tibetan (Dbus) *do* (Lhasa) *to* (Lhasa elegant) *tho*, Old Tibetan *mdžiñ* “neck” > New Tibetan (Dbus) *džiñ* (Lhasa) *tšiñ* (Lhasa elegant) *tšiñ*. We must thus draw an additional isogloss, to separate New Tibetan (Lhasa) *ko* from (Lhasa elegant) *kho* “head” and (Lhasa) *to* from (Lhasa elegant) *tho* “stone”—but this isogloss must be drawn through social rather than through geographical space.

This social isogloss will probably coincide with several others, thus forming a social—rather than a spatial—dialect boundary. One such additional social isogloss will separate speakers who articulate unreleased nondental finals from those who do not, with those who do not articulate these finals being the more elegant—thus Old Tibetan *myig* “eye” > New Tibetan (Golok)

Note that the process of devoicing affects only those initials that were originally voiced in Old Tibetan, and has had no effect on Old Tibetan unvoiced initials—thus, for example, Old Tibetan *ka-ba* “pillar” > New Tibetan (Amdo) *kaa/kaba* (Dbus) *kawa* (Lhasa) *kaa*, Old Tibetan *dkar-po* “white” > New Tibetan (Golok) *karwo* (Amdo) *karo* (Ladakh) *karpo* (Dbus) *karpo* (Lhasa) *kapo*.

²⁵ It is probably worth noting that a great deal of American scholarship on the Lhasa dialect is based on the speech of a single informant, Nawang Nornang, supplemented by the speech of other Lhasa aristocrats. Mr. Nornang is extremely charming, literate, and articulate, and therefore a pleasure to work with; but he is also the speaker of an unusually elegant type of Lhasa City dialect. An entire generation of American students has therefore learned to speak the Tibetan equivalent of Boston brahmin English.

m̥uk (Amdo) *γñiñ-y-xñik* (Balti) *mik* (Ladakh) *mik* (Dbus) *mik-mi?* (Lhasa) *mik-mi?* but (Lhasa elegant) *mi*, Old Tibetan *nub* "west" > New Tibetan (Golok) *nup* (Balti) *nup* (Ladakh) *nup* (Dbus) *nup* (Lhasa) *nup* but (Lhasa elegant) *nu*, Old Tibetan *gur* "tent" > New Tibetan (Golok) *kur* (Amdo) *kür* (Ladakh) *kur* (Dbus) *kur* (Lhasa) *khur* but (Lhasa elegant) *khu*. Another social isogloss will separate speakers for whom Old Tibetan stop initials with

I don't want to talk grammar, I want to talk like a lady.

—George Bernard Shaw,
Pygmalion

r postinitials are retroflex stops from those for whom they are retroflex affricates, with the latter again being the more elegant—thus Old Tibetan *skra* "hair" > (Kham) *ṣtra* (Tao-fu) *ṣṭra* (Purik) *skra* (Ladakh) *ṣa* (Dbus) *ṭa* (Lhasa) *ṭa* but (Lhasa elegant) *ṭṣa*, Old Tibetan *gri* "knife" > New Tibetan (Tao-fu) *gri* (Khams) *ɖi* (Dbus) *ʈi* (Lhasa) *ʈhi* but (Lhasa elegant) *ʈʃhi*, Old Tibetan *spring* "cloud" > New Tibetan (Derge) *trim* (Purik) *spring* (Ladakh) *ʂin* (Dbus) *ʈin* (Lhasa) *ʈin* but (Lhasa elegant) *ʈʂin*, Old Tibetan *nbras* "rice" > New Tibetan (Balti) *bras* (Ladakh) *ɖas* (Dbus) *ɖe* (Lhasa) *ʈe* but (Lhasa elegant) *ʈʃe*. In sum, if this analysis is correct, the social dialect boundary in Lhasa City separates speakers of a breathier, more fricative, less stopped manner of speech from speakers of a voicer, less fricative, more stopped manner of speech. This is, in fact, a discernible difference among speakers of the Lhasa dialect, and depends on social class or the efforts of the speaker to sound elegant and aristocratic.

3.2. VARIATION IN OLD TIBETAN

I can say without hesitation that similar sorts of variation existed in Old Tibetan as well. The problem is that—aside from a conviction that such variation existed in Old Tibetan, as it exists in every language—we simply do not know much about it.

The period of Old Tibetan we may take to be more or less coextensive with

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the age of the central Tibetan Yar-luñ dynasty, from the seventh to the ninth centuries—the era of Tibet's greatest military expansion and the time when the foundations of Tibetan culture were laid, including the language we are here calling classical Tibetan. This was the time when terrifying Tibetan hordes, with their faces painted red, conquered and occupied the strategic oases of Central Asia, and on one occasion even captured and briefly held Ch'ang-an, the capital of China. For these two centuries, Tibet was the dominant power in Inner Asia.

By the middle of the eighth century at the latest, the barbarian warriors of Tibet had developed a uniform writing system, based on an Indian model, which they used on huge monolithic pillars to record their victories and in correspondence among the military outposts of their empire. By the reign of Khri Sroñ-lde-btsan (742-797), who founded the monastery of Bsam-yas and invited the Indian academicians Śāntarakṣita and Kamalaśīla to Tibet, this writing system had begun to be applied to the production of Buddhist texts. By the beginning of the ninth century it seems a need was felt to standardize the language of these translations, whether from religious or imperial impulse it is difficult to say; in any event, the language standardization project was begun under Khri Lde-sroñ-btsan (776-815) and completed under his son Khri Gtsug-lde-btsan (805-836). The result was a dictionary, the *Bye-brag-tu rtiogs-par byed-pa*, perhaps better known under its Sanskritized title *Mahāvyutpatti*, and a commentary, the *Sgra-sbyor bam-po gnis-pa*, with the Sanskrit title *Madhyavyutpatti*, which served as a treatise on translation theory and practice. Translations that had already been completed were revised by the central translation committee, and, as the historian Bu-ston says, *skad-gsar btšad-kyis gian-la phab* "The new language was established by decree." The result was a series of canonical translation equivalents for Buddhist texts, in officially sanctioned spellings.

3.2.1. Sources

There are three primary sources of written evidence for dialect variation in Old Tibetan during this period. One source is the collection of manuscripts recovered from the famous walled-up library in one of the shrines constituting the settlement at Ch'ien-fo-tung, near Tun-huang, in western Kan-su, the caravanserai which marks the end of China and the beginning of the desert. The sealed cave yielded an immense hoard of Tibetan manuscripts from the eighth and ninth centuries, including historical records, translations, myths,

rituals, divination manuals, and collections of proverbs. The spelling of words in these texts is the most direct available evidence of dialect variation among the scribes who wrote them down.²⁶

Another source consists of documents, written primarily on thin strips of wood held together with string, or on coarse, unglazed paper, left behind by the Tibetan garrisons at the oasis cities of Chinese Turkestan, primarily forts at Mīrān and at Mazār-Tagh in Khotan. These oases had long had their own vibrant culture—their garden walls adorned with frescoes and stucco reliefs—when they were occupied and garrisoned by Tibetan troops, who left behind in their storerooms the identity cards of soldiers, address labels for military and administrative correspondence, military reports, administrative memoranda, and letters to superiors from harried commanders in need of supplies. Like the Tun-huang texts, these more prosaic documents give us spellings and vocabulary that may reflect dialect variations among their authors.

A third source is found in the several inscriptions on monumental pillars erected in and near Lhasa City. These inscriptions include the earliest extant dated Tibetan writing, the pillar at Žol, erected by Nān-lam stag-sgra klu-goñ in 767 to memorialize his services to the king and his victories over the Chinese. For the purposes of phonological reconstruction—that is, when we try to figure out what Tibetan actually sounded like in Lhasa City—the most important of these pillar inscriptions is that of the Sino-Tibetan treaty of 821, which contains in bilingual versions the names of both the Chinese and Tibetan officials who participated in the conclusion of the treaty, with Tibetan transliterations of Chinese names and Chinese transliterations of Tibetan names. Again, since there are independent reconstructions of Middle Chinese phonology, the Chinese transcriptions of Tibetan names can tell us—within the limits of the ability of written Chinese to transliterate anything—what the Tibetan of Lhasa City actually sounded like to the Chinese scribes. We find

²⁶ A few of these manuscripts, too, turned out to be Chinese Buddhist texts transliterated into Tibetan, presumably so that they could be recited by Tibetan travelers illiterate in Chinese but perhaps with some knowledge of the spoken language. Since we have independent access to the Chinese texts thus transliterated, and independent reconstructions of their Middle Chinese phonology, such texts can provide significant clues to the phonological values of the Tibetan graphs used to transcribe them. We will turn to these texts for help when we discuss the Tibetan writing system.

similar Chinese transliterations of several Tibetan government titles and royal names in the Chinese historical records dealing with Inner Asian political affairs.

3.2.2. Manuscript variations

Even with these sources, it is difficult to form any consistent geographical picture of Old Tibetan dialect variation. We can, of course, detect fragments of dialects. One text from the Tun-huang library, for example, consists of proverbs attributed to *ma sum-pa* "Mother Sum-pa/the Sum-pa mother." In this text we find <*mu*> written consistently for Old Tibetan *myi* "man," and apparently intended to represent the form *mu* "man" in the dialect of the author. That this dialect was that of a Sum-pa people is indicated not only by the title of the text but also by the fact that the Sum-pa were apparently a distinctive Tibetan group.²⁷ We are probably justified in believing that we have here found a genuine Old Tibetan dialect variant—Old Tibetan (Sum-pa) *mu* "man," as opposed, say, to the Old Tibetan (Lhasa) *myi* > *mi* "man" attested on the contemporaneous monumental pillars erected around Lhasa City.

Similarly, another Tun-huang manuscript, this time dealing with divination, presents what seem to be consistent dialect features, writing <*sla*> for Old Tibetan *zla* "moon" and <*slogs*> for Old Tibetan *zlogs* "reversed," and <*tham-ṣad*> for Old Tibetan *thams-ṭṣad* "all" and <*sem-ṣan*> for Old Tibetan *sems-ṭṣan* "sentient creature." Again, these spellings would seem to reflect genuine Old Tibetan dialect variants; unfortunately, we do not know where they are from. But the variants are sufficiently systematic that the

²⁷ The Sum-pa play a role in both the Old Tibetan Chronicles and the Old Tibetan Annals: they were conquered by Myañ Mañ-po-rdžé žañ-snañ, the minister of Sroñ-btsan sgam-po; there were Sum-pa in Rgya-roñ and Mdo-smad. The New T'ang History reports that Stag-sgra, a prince of the Sum-pa, defected from Tibet and surrendered to the Chinese. The term *sum-pa* also appears as a geographical designation in proper names—for example, the otherwise unknown Sum-pa Csas-slebs, mentioned in a ninth-century fragment of administrative correspondence from the Tibetan fort at Mirān. Later the term *sum-pa* came to refer to the Mongol, who came to the Kokonor region later on; the author S.um-pa Yesé dpal-Nbyor was probably among the latter. At least one word-list of New Tibetan, first published by the South Manchurian Railway in 1943, reports the form *mu* "man" from the area of Labrang in Amdo, although this is probably an attempt to render the form *mi*.

manuscript seems to represent a particular dialect, in which the *zl* of, say, Lhasa City is represented by *sl*, and *-s-ts'* is represented by *s*. Using the manuscript designation as the provenance of the linguistic forms, therefore, we are probably justified in proposing Old Tibetan (Stein ms. 73 IV 3a) *sla* "moon," as opposed to Old Tibetan (Lhasa) *zla* "moon," and Old Tibetan (Stein ms. 73 IV 3a) *tham-sad* "all," as opposed to Old Tibetan (Lhasa) *thams-ts'ad* "all," with the Lhasa forms as attested on the Sino-Tibetan treaty pillar of 821.

Again, we find a Tun-huang mythological manuscript apparently pertaining to a legendary time of woe in the Skyi country, although the provenance of the manuscript itself is uncertain. The manuscript seems to reflect, at least in some portions, a dialect which did not have—or was in the process of losing—the distinction between palatal and dental affricates found elsewhere in Old Tibetan. Thus we find, in this manuscript, both *<khri-t'sog>* and *<khri-tsog>*, both *<glǖn-brǖn t'seu>* and *<glǖn-brā̄n tseu>*, and both *<be-ne t'shog-po>* and *<be-ne tshog-po>*, written apparently indiscriminately. What is interesting and puzzling, however, is that these are all proper names, and proper names that are, as far as I know, peculiar to this text. We do not find such variation in other parts of the lexicon: Old Tibetan *mt'shog* "best" is written consistently as *<mt'shog>*, and Old Tibetan *t'shab* "water" is written consistently as *<t'shab>*. One hypothesis is that the manuscript in fact represents a dialect in which there is no distinction—or no longer a distinction—between dental and palatal affricates; where the scribe writes a word in common use, he writes it according to the spelling rule he has learned; where the scribe has no rule to follow, as when he is writing a proper name he has never seen spelled elsewhere, he improvises its spelling inconsistently, since the different graphs for palatal and dental affricates do not reflect a distinction in his own speech. We do not know, of course, whether in this dialect the palatal affricates have fallen together with the dental, or the dental with the palatal; but such a dialect would clearly be different from that recorded, say, on the pillar inscriptions at Lhasa City.²⁸

²⁸ The Central Asian manuscripts—both from Tun-huang and Khotan—show considerable variation in their spelling of those grammatical particles which undergo morphophonological changes according to the final or postfinal of the preceding syllable. Some manuscripts tend to generalize a single form of such a particle—for example, the voiced palatalized form, writing *-gi* even where the morphophonological rules would seem to call for *-kyi* or *-gi*. Other manuscripts may avoid palatalized forms altogether, using *-gi* and the otherwise unattested postconsonantal forms *-i* and *-ki*, as in *<nam-i>* and *<yab-ki>*, where the

3.2.3. Reconstructed variations

Sometimes we can reconstruct earlier variation where New Tibetan dialect variants do not reflect a single Old Tibetan source. The word for "knee," for example, is *pus-mo* in the classical texts, with the high back vowel *u* and a final *-s*. But it is clear that this form is only one of several earlier Tibetan words with the same meaning. Some of these variants apparently go back to earlier forms with the same vowel but a velar final cluster: in western Tibet we find New Tibetan (Balti) *buxmo* (Purik) *puksmo*, which indicate an earlier form **pugs-mo*. But we also find forms with the same finals or clusters but a high front vowel *i* instead of a high back vowel *u*. We find (Ladakh) *pismo*, indicating an earlier form **pis-mo*, and (Lahuli) *pigmo*, of uncertain ancestry, but possibly from **pig-mo* or **pigs-mo*. At the other end of Tibet, in the far northeast, we find (Amdo) *wixmo*–*ixmo*, which could have come from any of the four earlier forms **pig*–*pigs*–*pug*–*pugs-mo*, and (Golok) *wigo*, which seems to indicate an earlier **pig-mo*. And in central Tibet we find (Dbus) *pimo*, which looks like it came from **pis-mo*, and (Lhasa) *pümu*, which is so clearly related to an earlier form **pus-mo* that one suspects that it is in fact a reading pronunciation of the written form <*pus-mo*>. And we also find in Lhasa City a form *pemo*, whose vowel *e*—instead of *ɛ*—and long high level tone on the first syllable suggest an earlier form **pel-mo*. There is, thus, no one earlier form that can account for all these New Tibetan variants, and we must reconstruct at least four—or possibly five—precursor forms—**pis-mo*, **pig*–*pigs-mo*, **pus-mo*, **pug*–*pugs-mo*, and, perhaps, **pel-mo*.

Contemporary forms help confirm other variations in Old Tibetan. At one time, certain Old Tibetan words with a labial initial and a front vowel had been written with the bottom graph <*y*>, both in the Central Asian manuscripts and on the Lhasa inscriptions, indicating that the labial initial had been palatalized—for example, *myi* "man," *myiñ* "name," *mye* "fire," *myes* "grandfather," *dpyes* "copy." Other words with a labial initial and a front vowel were apparently not so palatalized, and were written without the <*y*>—for example, *miñ* "brother," *me-tog-men-tog* "flower," *dpen* "useful." After the language reforms of the early ninth century, the bottom graph <*y*> was eliminated from all such words, and the words officially became *mi*

morphophonological rules would seem to call for *-kyi* or *-gyi*. It is very difficult to draw any conclusions from such variation, not only because of its inconsistency even within a single manuscript, but also because these spellings may in fact reflect sporadic attempts at phonemicizing the writing of these particles.

"man," *miñ* "name," *me* "fire," *mes* "grandfather," *dpe* "copy," presumably because that is the way the nobles in Lhasa City pronounced them.

In the far northwest, however, labials before front vowels in these words continued to be palatalized. How do we know? As a general rule, Old Tibetan *my* > New Tibetan *ñ*, as when, say, Old Tibetan *myug* "reed" > New Tibetan (Dbus) *ñuk*, or Old Tibetan *dmyal-ba* > New Tibetan (Lhasa) *ñala*. Thus, when we find, among the northwestern dialects, New Tibetan (Amdo) *ñi* (Dpari) *mñi* (Golok) *mño* "man," as opposed to New Tibetan (Dbus) *mi* (Lhasa) *mi* in central Tibet, and New Tibetan (Amdo) *ñe* (Han-niu) *mñi* (Golok) *wñe* "fire," as opposed to New Tibetan (Dbus) *me* (Lhasa) *me*, we can hypothesize the northwestern forms are in fact descended from an earlier **myi* "man" and **mye* "fire," respectively, while the central Tibetan forms are descended from the Old Tibetan *mi* and *me* recorded in the texts after the spelling reform. Words that were not written as palatalized before the spelling reform do not have palatalized descendants in any dialect—thus, for example, Old Tibetan *me-log* "flower" > New Tibetan (Amdo) *metoy* (Lhasa) *meto*.

3.2.4. The problem of the preinitials

A striking feature both of the manuscripts and of the inscriptions is the variability of preinitials. In the Central Asian manuscript material, whether from Khotan or Tun-huang, the scribes sporadically weaken or omit preinitial consonants in complex syllable onset clusters: they write both <*rkon*> and <*dkon*> for *dkon* "rare," both <*rgu*> and <*dgu*> for *dgu* "nine," both <*kar*> and <*dkar*> for *dkar* "white," both <*go*> and <*mgo*> for *mgo* "head," both <*pon*> and <*dpon*> for *dpon* "lord," both <*tha*> and <*mtha*> for *mtha* "end," both <*tsan*> and <*bisan*> for *btsan* "king," both <*tsis*> and <*rtsis*> for *rtsis* "reckoned," both <*lon*> and <*blon*> for *blon* "minister," both <*sar*> and <*gsar*> for *gsar* "new."

Similarly, on the Sino-Tibetan treaty pillar of 821, we find Old Tibetan <*bka*> "command" transliterated as Middle Chinese **ghya*, Old Tibetan <*rgan*> "old" as Middle Chinese **kan*, Old Tibetan <*gtogs*> "attached" as Middle Chinese **twok*, Old Tibetan <*lta*> "sees" as Middle Chinese **tha*, Old Tibetan <*rgyal*> "king" as Middle Chinese **kye*, Old Tibetan <*brtan*> "firm" as Middle Chinese **tan*, Old Tibetan <*rma*> "name of a district" as Middle Chinese **mwa*, Old Tibetan <*bla*> "high" as Middle Chinese

*la—but Old Tibetan <*bzañ*> “good” as both Middle Chinese **džhañ* and **b-džhañ* <**bhwai-džhañ*>, Old Tibetan <*klu*> “serpent deity” as both Middle Chinese **ləu* and **k-hyə* <**kyu-hyəp*>. Nonstopped and nasal preinitials were apparently still articulated clearly enough for the Chinese scribe to catch: Old Tibetan <*stañ*> “HONORIFIC AFFIX TO PERSONAL NAMES” is transliterated as Middle Chinese **stañ* <**syet-tañ*>, Old Tibetan <*snam*> “wool” as Middle Chinese **snam* <**syet-nam*>, Old Tibetan <*ndus*> “assembled” as Middle Chinese **nus* <**nwo-syet*>. We find similar Chinese transliterations in the T'ang dynastic histories. In the Annals of the Later T'ang we find what we can presume is Old Tibetan *btsan* “king” transliterated as Middle Chinese **tsan*, Old Tibetan *blon* “minister” as Middle Chinese **lywən*, but Old Tibetan *spyan* “eye” as Middle Chinese **spyen* <**syet-pyen*>.

Synchronously, it is clear that the speakers of the dialects reflected in these texts were not articulating—or were not consistently articulating—earlier stopped nonnasal preinitials, and were weakening them or dropping them completely. It is equally clear, however, that, at the same time, the speakers of the Lhasa City dialect were *writing* their words with the preinitials indicated, right on the same pillar as the Chinese transcriptions, and were giving those spellings the official sanction of their Buddhist translation commission. And in other dialects these preinitials apparently continued to be articulated: note, for example, Old Tibetan *dgu* “nine” > New Tibetan (Khams) *dgu*, Old Tibetan *bdun* “seven” > New Tibetan (Khams) *bdun*, Old Tibetan *gtram* “story” > New Tibetan (Khams) *gtram*, Old Tibetan *sgo* “door” > New Tibetan (Khams) *sgo*.²⁹

This is all very puzzling. I believe it is plausible to suggest that we are dealing

²⁹ Loan words are not much help unless we know just where and when the loan took place. When Mongol *kuderi* “musk” was borrowed into Tibetan as *sku-bde-rigs*, or when Mongol *badur* “warrior” was borrowed as *dpa-bdud*, or when Middle Chinese **lwyōñ* “dragon” is written in Tibetan as both *rluñ* “wind” and *kluñ* “river” in the compound *rluñ-na~kluñ-na* “dragon horse → prayer flag,” we can guess that, at that time and place, the preinitials were not being articulated as they were written; we just do not know where or when that was. But sometimes we can get close. For example, on the smaller of the two Chū-yung-kuan inscriptions, written in Mongolian, in Nphags-pa script, probably in the late thirteenth or early fourteenth century, we find Tibetan *rab-gnas* “consecration” as Mongol *arabnas*, Tibetan *bla-ma* “lama” as Mongol *lcma*, and Tibetan *dge-bṣes* “professor” as Mongol *gebši*. This inscription is, of course, a long time after and a long distance from the Sino-Tibetan treaty inscription, but it presumably still represents the speech of such educated Tibetans as might have access to the Mongol court.

here with a social rather than a geographic dialect—a social dialect that includes both the officials at Lhasa City and the administrators and scribes of their Central Asian garrisons.³⁰ But if preinitials tended to be elided in the prestige dialect, why were they made part of the official spellings? And if—as I prefer to hypothesize—preinitials tended to be articulated in the prestige dialect in slow or elevated speech, but elided when talking rapidly or conversationally, why were they not noted by the Chinese scribes who transliterated the Tibetan words—presumably pronounced slowly and carefully for them—on the treaty inscription?

4. DEFINING CLASSICAL TIBETAN

I will use the term CLASSICAL TIBETAN to refer to the language of written Tibetan texts, with the exception of the canonical translations, primarily from Sanskrit,³¹ and the language of modern newspapers and similar printed

³⁰ Assignment to an administrative post at one of the beautiful and civilized oasis cities of Central Asia would not necessarily be a hardship post, although there were certainly some garrisons that were considerably less attractive.

³¹ Translations of Buddhist and other texts began during the first half of the eighth century; as we have noted, the vocabulary and style of the translation language were thoroughly regularized during the early part of the ninth century, under King Khri Gtsug-lde-btsan. With the promulgation of translation rules by the royal commission, standardization of rendering became a primary virtue: as one commentator has noted, many of the translations of the ninth through the early twelfth centuries appear to be the work of unimaginative hacks. This mechanical rendering of equivalents, however, has often been deemed a virtue by modern scholars who view Tibetan only as a means to "reconstruct" lost Sanskrit texts—that is, to engage in the peculiar exercise of translating Tibetan texts into Sanskrit.

One of the problems was the difficulty of persuading qualified Indian teachers to travel to Tibet, a place perceived as horrid and barbaric by any urbane Indian academic; another problem was the hazard—famine, thieves, strange diseases—which attended any trip to India by a Tibetan in search of a teacher. There were exceptions, of course: the Indian Smṛtijñānakīrti came to Tibet in the latter half of the tenth century, searching for his transmigrating mother, who had been reborn as an insect in Rta-nag, and the great Dīpamkaraśrījñāna, called Atīśa "Lord of lords," arrived in the early part of the eleventh century. But it was only with the Muslim conquest of North India—Benares and Bihar fell to the forces of Qutb-ud-Din in 1193, and the great monastic university of Vikramaśīla was burned to the ground in 1206—that Indian scholars fled to Tibet in any great numbers, bringing with them the first real understanding the Tibetans had of Sanskrit literary culture. The Kha-iṣhe paṇ-

material.³² The remainder—the vast corpus of written Tibetan material ranging in date from the eighth century to the present day—is written in a language recognizably the same, and all more or less accessible to the literate Tibetan. I use the term in conscious imitation of similar usage in Chinese literary study, where the term “classical Chinese” refers to the written language as a whole, from bronze inscriptions to novels, all of which is the province of the literate scholar, but with the similar exclusion of translations from Sanskrit and the written Chinese of newspapers and magazines.

Classical Tibetan, unlike many written languages, is in many ways independent of the spoken Tibetan language. For example, the basic phonological distinctions underlying the classical language have remained—throughout its history—those of Old Tibetan. Even today, a writer of classical Tibetan will WRITE the form <*sgrub*> for the present stem, <*bsgrubs*> for the past stem, and <*bsgrub*> for the future stem of the verb *SGRUB* “accomplish,” even when all three forms are PRONOUNCED identically in his spoken language—for example, New Tibetan (Lhasa) *tup*. Similarly, a writer of classical Tibetan will write the past stem of *SAG* “gather” as <*bsags*>, with an -*s* suffix, and the past stem of *SAD* “kill” as <*bsad*>, without an -*s* suffix, because of an Old Tibetan syllable structure constraint, even when his spoken language no longer has syllable-final consonant clusters in any event. In both these examples, classical Tibetan is WRITTEN according to the phonological rules of Old Tibetan.³³

³² When Śākyāśrībhadra arrived with a retinue of nine pandits in 1206; by the second half of the thirteenth century, Śoṇ-ston Rdo-rdže rgyal-mtshan was working with Lakṣmīkara to translate Sanskrit drama, poetry, and treatises on poetical theory. And these refugee scholars came with their books: the bulk of Sanskrit manuscripts preserved in Tibet date from the thirteenth century.

³³ Newspaper Tibetan has been called “modern literary Tibetan” by anthropologist Melvyn Goldstein, although its uses appear to me to be far from literary. Classical Tibetan, of course, continues to be written to this day, as the language of learned discourse, and even as the language of popular culture; whether newspaper Tibetan will become a vehicle for a genuine colloquial literature remains to be seen, although early signs are encouraging.

³⁴ A parallel situation is found in Chinese poetry: words which once rhymed in older stages of the language continued to be used as rhymes, even when they no longer rhymed in the spoken language of the poet, with special dictionaries compiled to tell the writer which words were supposed to be considered rhymes and which were not.

This is not to say, of course, that classical Tibetan has never been influenced by the spoken language. Such influences can certainly be found. For example, the fifteenth-century Gtsañ-smyon he-ru-ka, in his famous biography of the eleventh-century poet Mi-la ras-pa, consistently used the Middle Tibetan conjunction *-ruñ* "BUT" in his own prose, in contrast to the Old Tibetan conjunction *-yañ* "BUT" found consistently in the genuinely older songs attributed to Mi-la which he quotes. Similarly, dialect pronunciations have been given an Old Tibetan orthography and borrowed back into the classical language—for example, *nphyor-pa* "pretty" as *mišhor-pa*, and *skyuñ-ka* "jackdaw" as *lušuñ-ka*. The amount of this influence, of course, varies with the author, the style, and the subject matter: clearly a text on logic theory written for candidates for advanced monastic academic degrees will show less influence from the contemporaneous dialect of its author than a book of popular maxims, even when written by the same writer.³⁴ Once again, the parallel with classical Chinese is striking.

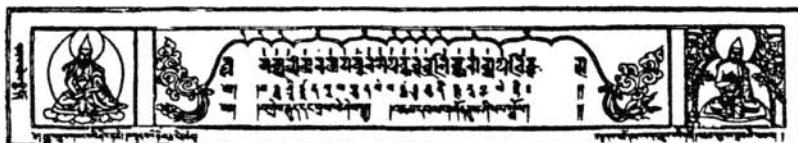


Figure 3. Illuminated book page

³⁴ In this regard we should note a remarkable group of nineteenth- and twentieth-century monk scholars in the *ris-med* "eclectic" movement, beginning with Kōn-sprul Karma Ngādbāñ yon-tan rgya-mtsho, Ndžam-dbyalñs mkhyen-brtsei dbañ-po, and Mi-pham rgya-mtsho of Kham, who emphasized the unity of the Tibetan religious tradition, and who initiated a lasting interest in oral literature and the epic tradition.

The Writing System

1. GRAPH AND SOUND

It is important to distinguish between a linguistically functional sound and the written sign—or GRAPH—which represents that sound. This distinction was blurred among the Tibetan grammarians, who used the term *yi-ge* indiscriminately to mean both a sound and the graph used to write that sound. Such usage can be misleading. The script does make some graphic distinctions that reflect significant phonological distinctions: for example, stopped preinitials

It is generally assumed that the spoken word came before the written word. I suggest that the spoken word as we know it came after the written word. . . . My basic theory is that the written word was actually a virus that made the spoken word possible.

—William S. Burroughs,
The Job

are written as left graphs and nonstopped preinitials are written as top graphs. But the writing system fails to reflect other and equally significant phonological distinctions: for example, in both *zla* “moon” and *sla* “thin” the *-l-* is written as a bottom graph; but in *zla* it is apparently an Old Tibetan postinitial, while in *sla* it is undoubtedly the initial.¹

¹ Thus, too, the fact that the sequences *<grags>* and *<grogz>* are written with the same GRAPHIC conventions does not mean they are PHONOLOGICALLY equivalent—and, indeed, there is reason to believe that Old Tibetan *grags* “fame” > New Tibetan (Lhasa) *tha* was phonologically distinct from Old Tibetan *grogz* “helper” > New Tibetan (Lhasa) *ro*, despite their graphic similarity.

Moreover, it must be remembered that the writing system has remained virtually unchanged for a thousand years, while the spoken language has undergone change in several ways. The written form <*sgrub*>, originally representing Old Tibetan *sgrub* "accomplishes" < *N-SGRUB*, now represents, say, New Tibetan (Lhasa) *tup*. Now phonological change has been sufficiently regular, in most cases, that a literate Lhasa city reader can process <*sgrub*> as representing *tup*; but the same person, as writer, cannot with similar assurance transcribe *tup* as <*sgrub*>, instead of, say, <*nbrub*> or <*ndrub*>, which also represent New Tibetan (Lhasa) *tup*. Rather, it must be learned that *tup* "accomplishes" is written <*sgrub*>, that *tup* "overflows" is written <*nbrub*>, and that *tup* "sews" is written <*ndrub*>.² The growing divorce between writing and speech leads to another occasional anomaly—the fact, not only that Tibetans are generally terrible spellers, but also that a Tibetan can say things he does not know how to write at all. Such a common expression as New Tibetan (Lhasa) *tañi* "last year" seems to have no written form; it is represented graphically where necessary by the unrelated sequence <*na-niñ*>.³

2. THE INVENTION OF WRITING

The traditional account of the invention of the Tibetan writing system is set forth in the ecclesiastical history of Bu-ston (1290-1364). There we are told that Thon-mi Anui-bu was sent to India by king Sroñ-btsan sgam-po (who ruled from about 627 to 650) along with sixteen companions in order to study writing; he studied with a pandita named Lha-rig-pai señ-ge, created the Tibetan alphabet based on a Kashmiri prototype, and composed eight works on writing and grammar. This bare account is progressively elaborated in the later historical texts, which add circumstantial details to the story. The name Thon-mi~Thu-mi~Mtho-mi becomes associated with two earlier—and prob-

² Conservative writing systems representing changing languages therefore aspire to the condition of Chinese, with the relationship between graph and sound becoming increasingly arbitrary and, eventually, the subject of sheer memorization.

³ Note too that one can, of course, write a graphic sequence representing a syllable which is not allowed by the phonological rules of the language. Thus the graphic sequence <*brklub*> can be interpreted as representing a syllable ?*brklub*, which is not a permitted syllable, just as the sequence <*bsgrub*> can be interpreted as representing the syllable *bsgrub*, which is.

ably composite—grammatical works, the *Sum-tsū-pa* and the *Rtags-kyi ndžug-pa*. We should note, however, that the earliest, and simplest, account was written seven hundred years after the events it purports to describe, and that genuinely ancient Tibetan historical records from Central Asia—unavailable to Bu-ston and his successors—appear to contain no mention of Thon-mi at all.

Considerable doubt can thus be cast on the traditional account of the invention of Tibetan writing, and there are considerable difficulties concerning even the historicity of its putative inventor. Moreover, an Indian inscription on baked bricks from Gopālpur, written in a script virtually identical with the Tibetan, has been independently dated to around 500. Such evidence gives reason to believe that any purported invention was, if anything, a standardization of Indic scripts already in circulation for as long as a century. Such standardization presumably would have fixed the graphs for phoneines which are found in Old Tibetan but not in Sanskrit—prenasalization, voiced fricatives, and one series of affricates, as well as smooth vocalic ingress—primarily through the modification of existing graphs.⁴

The development of a writing system was apparently due to administrative rather than religious needs, at least at the beginning. One of the earliest references to writing is in the ancient annals discovered at the caves near Tun-huang, which briefly describe the principal events of each year from the death of Sroñ-btsan sgam-po in 650 through 747. The entry for the year 655 reads *btsan-po mer-khe-na bzugs-šūn, blon-išhe stoñ-tsān-gyis ngor-tir bka-grims-kyi yi-ge bris* “The King stayed at Mer-khe, and prime minister Stoñ-tsān wrote the text of his commands to Ngor-ti.”⁵ The earliest extant dated Tibetan writing is found on a pillar erected at Žol and dated 767. The pillar was erected by the powerful minister Ñan-lain stag-sgra klu-goñ, recording his services to the king, including victories over the Chinese, and the rewards he received. The pillar makes no mention of Buddhism.

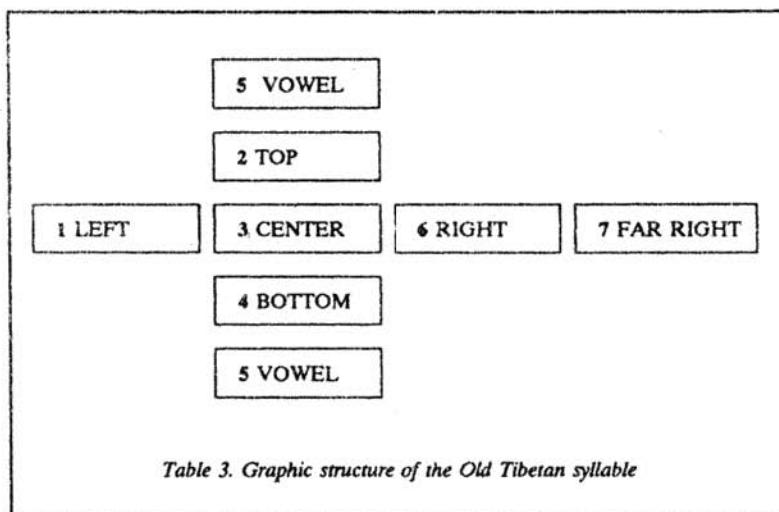
⁴ For example, the graphs for the dental affricates *dz*, *ts*, *tsh* are the same as the graphs for the palatal affricates *dž*, *tš*, *tšh* with a small hook added; the graph for *z* is the graph for *dž* backwards; the graph for *č* is, perhaps, derived from the graph for *č*. The origin of the graph called *a-išhuñ* “little *a*” by the Tibetan grammarians is a matter of much dispute.

⁵ Note the implication that the king himself was illiterate.

3. THE WRITING SYSTEM

The principles of the Tibetan writing system are easily described. The original technical problem was that of taking a syllabic script used for the predominantly open Indic syllable and adapting it to the complex onset clusters and closed syllables of Tibetan. The key to the adaptation is a small raised dot called *tshieg* "dot," which defines the boundaries of the syllable: everything between two dots constitutes one syllable. The word "syllable" in Tibetan is *tshieg-bar* "between the dots."

The following table shows the graphic structure of the Tibetan syllable, which we will discuss in the following paragraphs; the GRAPHIC structure of the syllable must, of course, be kept conceptually distinct from its PHONOLOGICAL structure. The numbers in the table indicate the sequence in which the graphs are processed.



The minimum graphic sequence consists of one CENTER GRAPH and one VOWEL GRAPH either above or below the center graph. This sequence is processed as an open syllable, with the vowel last; a vowel graph cannot be written independently of a center graph. The center graph may be any one of the 29 graphs representing the consonants *g, k, kh, d, t, th, b, p, ph, dž, tš, tsh, dz, ts, tsh, ñ, ñ, n, m, ž, ſ, z, s, y, r, l, w, ?,* and *h*. If the syllable being

represented has no initial consonant, but rather begins with a vowel, the center graph position is still filled, with what we will here call the PLACE-HOLDING GRAPH, called *a-tshuñ* "little a" by the Tibetan grammarians.⁶

⁶ No graph of the Tibetan writing system has been as discussed and controversial as "little a." For the Tibetan grammarians, *a-tshuñ* "little a" stood in contrast to *za-tshen* "big a" or the glottal stop *?*. This seems to be precisely the same distinction as that between Chinese *yú* "smooth vocalic ingress" and *ying* "glottal stop" known to the ancient Chinese phoneticians and reconstructed for the language of the sixth century AD.

For some reason, however, the Tibetan phoneticians identified their glottal stop *?* with the onset of Sanskrit syllables written without initial consonant graphs. Now Indic descriptions of this onset are puzzling; but perhaps in contemporaneous Sanskrit pronunciation a predictable and hence nonphonemic glottal stop did in fact precede every vowel without other consonant onset, just as in present-day English—compare, for example, English *æwr <hour>* with French *ör <heure>*. This is certainly true in modern Hindi; a Hindi speaker will read the vowel *<a>*, for example, as *ṛa*. Thus the Tibetan graph *<?>* for the glottal stop *?* is derived from and identified with the Indic graph *<a>*, which was presumably pronounced *ṛa*. And it was the place-holding graph *a-tshuñ* "little a," representing as center graph a smooth vocalic ingress—a graph not found in Sanskrit—that the Tibetan orthographers considered their own innovation.

That is the reason Ngos lo-tsā-ba Gžon-nu-dpal notes particularly that the Sanskrit alphabet was adapted to Tibetan by including the smooth vocalic ingress among the consonants: *rgya-gar-la med-kyañ bod-la ža-dañ za-dañ a-mams dgos*. Now the glottal stop is, of course, phonemic in Tibetan, as in such minimal pairs as *og* "underpart" *ṛog* "neck," and the Tibetan grammarians remained puzzled as to why the Sanskrit grammarians considered the glottal stop to be a vowel; still, in imitation of the prestigious Indian model, they used the graph *<?>* when discussing vowels, and thus would apparently speak of "the vowel *ṛa*" or "the vowel *ṛo*," instead of "the vowel *a*" or "the vowel *o*," much to the confusion of everyone involved.

Essentially, the place-holding graph *a-tshuñ* "little a" is used to write THE ABSENCE OF A CONSONANT. When this graph—which I will represent in this footnote with the phonetically neutral symbol *</>*—appears in the center graph position, it indicates the absence of an INITIAL consonant: that is, it represents a smooth vocalic ingress, as in *og <og>* or *ur <ur>*, as opposed, say, to *ṛog <ṛog>* or *dur <dur>*. In postvocalic position, it indicates the absence of an INTERVOCALIC consonant: that is, it represents that the vowel which follows is the second member of a diphthong, as in *pai <pali>* or *beu <be/u>*. And, in the right graph position, it indicates the absence of a FINAL consonant: that is, it indicates that the rightmost of the consonant graphs is the center graph, as in *dga <dga/>* or *mña <mña/>*, as opposed, say, to *dag <dag>* or *mañ <mañ>*.

This place-holding function—indicating the absence of a consonant—is clearly the function of the graph in the early Tibetan manuscript transcriptions of Chinese Buddhist texts. It marks the absence of a consonant onset when transcribing the Middle Chinese smooth vocalic ingress: Middle Chinese **i* is transcribed as </i>, Middle Chinese **ywei* as </u>, and Middle Chinese **yuan* as </un>. Similarly, the graph marks the absence of an intervocalic consonant when transcribing Middle Chinese diphthongs: Middle Chinese **tʃyeu* is transcribed as <tsi/u>, Middle Chinese **dhai* as <de/i>, Middle Chinese **myeu* as <nbye/u>, Middle Chinese **dhyei* as <de/i>, Middle Chinese **dhyau* as <dzi/u>, Middle Chinese **khyau* as <khkhye/u>, Middle Chinese **nai* as <ne/i>, and Middle Chinese **ŋek* as <ŋi/u>. And again, the graph marks the absence of consonant coda in transcribing Middle Chinese open syllables: Middle Chinese **γa* is transcribed as <ha/>, Middle Chinese **na* as <nda/>, Middle Chinese **ŋa* as <nga/>, Middle Chinese **ŋye* as <ngi/>, and Middle Chinese **ŋi* as <ngi/>.

Similar examples are found in the Sino-Tibetan treaty inscription of 821, where the place-holding *a-tshuñ* marks the absence of intervocalic consonants in Middle Chinese diphthongs: Middle Chinese **jhyeu* is transcribed as <tsje/u>, Middle Chinese **kau* as <ka/u> or <ke/u>, Middle Chinese **kai* as <khale>, Middle Chinese **ŋyau* as <ŋgi/u>, Middle Chinese **xau* as <he/u>, Middle Chinese **lyau* as <li/u>, Middle Chinese **jhyeu* as <dʒe/u>, Middle Chinese **thai* as <tha/i> or <the/e>, and Middle Chinese **ŋyau* as <ŋi/u> or <ʃi/u>.

Since the place-holding graph represents the absence of a consonant, it is unambiguously transliterated into English script as the absence of a consonant—for example, *ur* instead of, say, *fur*, *beu* instead of, say, *be/u*, and *dga* instead of, say, *dga/*. Such transliteration will be our practice throughout this text, except where, as above, the graphic *a-tshuñ* is explicitly rendered as </> for expository purposes.

It is interesting to note that the Korean script, invented in the fifteenth century, according to tradition, by King Sejong, also contains a place-holding graph. This place-holding graph contrasts with a glottal stop graph, despite the fact that Korean has no distinction between smooth vocalic and glottal stop onsets; rather, the graphs were created to provide distinct spellings for these onsets when they occurred in Chinese loanwords—for example, Middle Chinese **i* “barbarian” as opposed to **ŋi* “physician.” The graph for the glottal stop was soon given up, and only the graph for smooth vocalic ingress was retained. That graph is still used in Korean writing, because—just as in Tibetan—the orthographic rules require that each syllable begin with a consonant graph; and, if the syllable begins with a vowel—for example, the second syllable in *sə-ul* “Seoul”—the place-holding graph is used.

There is, in fact, some reason to believe that King Sejong knew the Tibetan writing system, at least in the form it took in China to write Mongol during the Yüan dynasty—the writing called the *Nphags-pa* script, from the name of its inventor, the Nphags-pa Blo-gros rgyal-mtshan, a Sa-skyā monk at the court of Khubilai Khan, who declared it the official script

As in other Indic scripts, the vowel *a* is signalled by the ABSENCE of an overt vowel graph; we may say, conventionally, that the vowel graph <*a*> for the vowel *a* is the ZERO GRAPH.⁷ A center graph with no other accompanying overt vowel graph necessarily has the invisible zero graph, and thus the syllable nucleus must be *a*. Therefore, just as a vowel graph cannot occur independently of a center graph, a center graph cannot occur independently

What is written is based on non-movement: when I write, my body does not move in unison with the flow of words. . . . What is oral, on the contrary, cannot be separated from body motion. The spoken word writes itself not only in body postures . . . but also in the almost semaphoric gestures of the speech act.

—Edouard Glissant,
Free and Forced Poetics

of a vowel graph. Vowels other than *a* are written, on the Indic model, by vowel graphs written above (*i*, *e*, *o*) or below (*u*) the center graph.⁸ For example, the syllable *ka* is written with the graph <*k*> and the zero graph <*a*> followed by a dot to show the end of the syllable; the syllable *gi* is

of the empire in 1269. This script was also used to transliterate Chinese, and it made the same graphic distinction between glottal stop and smooth ingress; it may be the source from which King Sejong borrowed the same distinction into his invention.

⁷ This distinction must be borne in mind: the ZERO GRAPH represents the presence of a phoneme by the absence of a graph; the PLACE-HOLDING GRAPH represents the absence of a phoneme by the presence of a graph.

⁸ The Tibetan grammarians have given the vowel graphs—and thus the vowels themselves—fanciful names based on their shapes above and below the center graph: they call <*i*> *gi-gu* “curve,” <*u*> *zabs-kyu* “foot hook,” <*e*> *ngreñ-bu* “upright,” and <*o*> *na-ro* “nose horns.” Note that the name for each vowel contains that vowel. Note, too, that the term *na-ro* is, strictly speaking, meaningless; it is interpreted by the grammarians as either *ma-ro* “ears” or *sna-ru* “nose horns.” The graph <*a*>, of course, has no shape, being invisible; thus the Tibetan grammarians sometimes speak of there being only four vowels and a *ño-bo* “inherent” *a* in each consonant graph. This way of speaking is probably not helpful.

written with the graph $\langle g \rangle$ plus the vowel graph $\langle i \rangle$ written above the center graph, followed by a dot; the syllable *u* is written with the place-holding *a-tshuñ*, to indicate the absence of an initial consonant, plus the vowel graph $\langle u \rangle$ written below the center graph, followed by a dot; and so on.

Above the center graph—but below any superscript vowel graph—may be written one of three TOP GRAPHS, which are reduced forms of the center graphs for *r*, *l*, and *s*. Below the center graph—but above any subscript vowel graph—may be written one of four BOTTOM GRAPHS, which are reduced forms of the graphs for *y*, *r*, *l*, and *w*. All consonant graphs stacked on the same vertical axis represent a single onset cluster and are processed from top to bottom, with the vowel graph processed last: thus a top graph $\langle r \rangle$, a center graph $\langle g \rangle$, a bottom graph $\langle y \rangle$, and a zero vowel graph $\langle a \rangle$ is processed as $\langle rgya \rangle$, representing the syllable *rgya*; a top graph $\langle s \rangle$, a center graph $\langle k \rangle$, and a vowel graph $\langle u \rangle$ is processed as $\langle sku \rangle$, representing the syllable *sku*; a center graph $\langle b \rangle$, a bottom graph $\langle r \rangle$, and a vowel graph $\langle i \rangle$ is processed as $\langle bri \rangle$, representing the syllable *bri*; and so on.⁹

To the left of the center graph may be written one of five LEFT GRAPHS, which are the full forms of the graphs for *g*, *d*, *b*, *m*, and *a-tshuñ* “little *a*,” which in this position represents the prenasalization of a following stopped

⁹ One issue deserves brief mention here. In the classical Tibetan writing system we find the digraphs $\langle lh \rangle$ and $\langle hr \rangle$ —that is, a center graph $\langle h \rangle$ with a top graph $\langle l \rangle$, and a center graph $\langle h \rangle$ with a bottom graph $\langle r \rangle$. In several New Tibetan dialects these digraphs represent the VOICELESS GLIDES /l/ and /r/, with such minimal pairs as New Tibetan (Lhasa) *la* $\langle lha \rangle$ “god” *la* $\langle la \rangle$ “mountain pass,” *lak* $\langle lhag \rangle$ “special” *lak* $\langle lag \rangle$ “hand,” *rl* $\langle hrul \rangle$ “ragged” *rl* $\langle rul \rangle$ “rotten.” Could these digraphs have represented such voiceless glides in Old Tibetan as well? This seems unlikely; we find, for example, such classical doublets as *lhan~glan* “patch,” *LHOD~GLOD* “relax,” *lhog~glog* “ulcer,” *LHAD~GLAD~SLAD* “adulterate,” *hril~gril* “round,” and *hrañ~grañ* “cold.” Note also New Tibetan (Ladakh) *la* $\langle lha \rangle$ “god,” *lu* $\langle glu \rangle$ “song,” *lañs* $\langle slais \rangle$ “arise,” where Old Tibetan *lh* changes historically just like Old Tibetan *gl* or *sl* into New Tibetan (Ladakh) *l*, a voiced murmured lateral. The digraphs thus seem likely to have represented genuine clusters of glottal fricative plus glide; but other explanations are surely possible. Anomalously, on the Sino-Tibetan treaty pillar of 821, we find the cluster *lh* transcribed by Chinese characters whose initial has been independently reconstructed as Middle Chinese **th*. Thus Old Tibetan *tha* is transcribed as Middle Chinese **tha* or **tham*, and Old Tibetan *lho* as Middle Chinese **thuo*. I do not know why this is.

consonant.¹⁰ A left graph is processed first, followed by top-to-bottom

¹⁰ There are several lines of evidence that the *a-išhuñ* "little a" in left graph position in fact represented prenasalization of a following stopped consonant. First, as early as the ninth century, on the Sino-Tibetan treaty pillar of 821, we find independently reconstructed Middle Chinese nasal initials transcribed by what then must have been Old Tibetan prenasalized stops—for example, Middle Chinese *ñuo as <ngo>, Middle Chinese *ñyen as <ngin>, Middle Chinese *ñwo as <ngu>, Middle Chinese *myu as <nbu>, and Middle Chinese *ñwan as <nbun>. Similar transcriptions are found in the Tibetan transliterations of Chinese Buddhist prayer texts discovered near Tun-huang—for example, Middle Chinese *ñwai as <ngwe>, Middle Chinese *ñwo as <ngo>, Middle Chinese *ñye as <ngi>, Middle Chinese *ñzi as <ngyar>, and Middle Chinese *ñwo as <ndži>. Second, Indic loanwords in Old Tibetan are occasionally written with *a-išhuñ* in left graph position to represent a preceding nasal. For example, in an early Tibetan-Chinese manuscript vocabulary list—a sort of traveler's dictionary found near the Tun-huang caravanserai—we find <*se-nge*> instead of the later standard orthography <*señ-ge*> for *señ-ge* "lion" < Sanskrit *sīmha*, Apabhrañña *sīghu-sīmhu*. Elsewhere in the classical texts we find both <*se-ndu-ra*> and <*sindhu-ra*> for *sindhu-ra* "vermilion" < Sanskrit *sindūra*, Apabhrañña *sindūru*, Hindi *sendur*. Third, in the archaic eighth- and ninth-century manuscript material from Central Asia, we not infrequently find *a-išhuñ* in left graph position written idiosyncratically following a preceding final nasal: for example, we find <*tseñ-ngi*> where the standard orthography would have <*tseñ-gi*>, <*nbyam-ngi*> for <*nbyam-gyi*>, <*om-nbu*> for <*om-bu*>, <*skyin-ndañ*> for <*skyin-dañ*>, and <*señ-nge*> for <*señ-ge*>. Fourth, we find doublets in the classical language where *a-išhuñ* in left graph position alternates with <*m*> in left graph position—for example, *NTSHER-MTSHER* "gricvę," *NTHOL-MTHOL* "confess," *ntšiñ-bu-mtšiñ-bu* "spurious g̃'s jewel," *ndañ-mdañ* "funeral," *ngal-pa-mgal-pa* "billet of wood," *nkharba-mkhar-ba* "staff." Fifth, loanwords from Middle Tibetan into Monguor—a dialect of Mongolian—date from the thirteenth century: these loanwords show prenasalization where the corresponding Tibetan written forms show *a-išhuñ* in left graph position—Monguor *ñkuorlo* "circle" < Middle Tibetan *ñkhor-lo <*nchor-lo*>, Monguor *ndogoñ* "meeting house" < Middle Tibetan *ñdu-khañ <*ndu-khañ*>, Monguor *mbem* "100,000" < Middle Tibetan *ñbum <*nbum*>, Monguor *mbo* "stipend" < Middle Tibetan *nbo <*nbogs*>.

Why was this prenasalization represented by *a-išhuñ*, the place-holding graph? It is instructive to compare prenasalization with what occurs in Tibetan chant: here the singer attempts to maintain an uninterrupted level of sound while articulating the words very slowly and with various melodic embellishments—a singing technique which, in its striking similarity to Japanese Shingon chant, apparently derives from T'ang dynasty Chinese Buddhist sources. In this chanting style, as the articulators move into position for each stopped consonant, the singer briefly lowers his velum to allow the flow of air to continue unimpeded, yielding a prenasalization of each stopped consonant in the chant—for example, New Tibetan (Lhasa) *toñephamo* <*rdo-rdže phag-mo*> "Diamond Sow Goddess" is chanted as *toniñephamo*, and New Tibetan (Lhasa) *phapatiñenresi* <*nphags-pa spyan-ras-gzigs*> "Noble Avalokiteśvara" is chanted as *phanpantiñenresi*. The point is this: there is a close relation apparent to a Tibetan

processing of the top, center, and bottom graphs, with the vowel graph processed last: thus a left graph $\langle d \rangle$, a center graph $\langle g \rangle$, a bottom graph $\langle r \rangle$, and a zero vowel graph $\langle a \rangle$ is processed as $\langle dgra \rangle$, representing the syllable *dgra*; a left graph $\langle b \rangle$, a top graph $\langle r \rangle$, a center graph $\langle dz \rangle$, and a vowel graph $\langle u \rangle$ is processed as $\langle brdzu \rangle$, representing the syllable *brdzu*; a left graph *a-iShuñ* “little *a*,” a center graph $\langle g \rangle$, a bottom graph $\langle y \rangle$, and a vowel graph $\langle e \rangle$ is processed as $\langle ngye \rangle$, representing the syllable *:gye*; and so on.

To the right of the center graph may be written one of ten RIGHT GRAPHS, which are full forms of the graphs for *g*, *ñ*, *d*, *n*, *b*, *m*, *r*, *l*, *s*, and *a-iShuñ*, which in this position represents the absence of a syllable-final consonant, just as, in the center graph position, it represents the absence of a syllable-initial consonant.¹¹ A right graph is processed last, after the vowel graph: thus a

between such prenasalization and a preceding open syllable—that is, the absence of a consonant. It is not surprising to find the *a-iShuñ* used to mark this onset.

¹¹ An overt vowel graph, or a top or bottom graph, unambiguously identifies the center graph in a graphic sequence. However, when there is no overt vowel graph—that is, when there is the zero vowel graph—and no top or bottom graph, then the location of the center graph can be ambiguous: for example, the sequence $\langle dg \rangle$ could be processed either as $\langle dag \rangle$, with $\langle d \rangle$ read as the center graph, or as $\langle dga \rangle$, with $\langle g \rangle$ read as the center graph. But, with *a-iShuñ* in the right graph position, the sequence can only be processed as $\langle dga \rangle$, since it shows that there is no syllable-final consonant in the syllable which the sequence represents. Thus the graphic convention is used only when other means are lacking unambiguously to flag which of two consecutive consonant graphs is in fact the center graph: the place-holding graph is unnecessary—and unused—when an overt vowel graph identifies the center graph, as in $\langle dg \rangle$ or $\langle dg \rangle$, or when a top or bottom graph identifies the center graph, as in $\langle br \rangle$ or $\langle bk \rangle$.

Interestingly, this convention allows such inferences only from graphic structure, not from syllable structure. The sequence $\langle gz \rangle$ is graphically ambiguous between the readings $\langle gza \rangle$ and $\langle gaz \rangle$, but the syllable *gza* is a possible syllable, while the syllable *?gaz* is not; still, the writing system marks $\langle z \rangle$ as the center graph by putting *a-iShuñ* in the right graph position, to resolve the GRAPHIC ambiguity, and allowing no inference concerning the center graph to be made from the fact that the sequence could not PHONOLOGICALLY be processed as *?gaz*.

In fact, it took some time for this graphic convention to take hold. In the archaic manuscript material from Central Asia, we find the *a-iShuñ* sporadically in right graph position even where the center graph is otherwise unambiguous, as in the syllables *Ndre* $\langle Ndre \rangle$, *bu*

center graph $\langle b \rangle$, a zero graph $\langle a \rangle$, and a right graph $\langle r \rangle$ is processed as $\langle bar \rangle$, representing the syllable *bar*; a top graph $\langle r \rangle$, a center graph $\langle d \rangle$, a vowel graph $\langle u \rangle$, and a right graph $\langle \bar{n} \rangle$ is processed as $\langle rdu\bar{n} \rangle$, representing the syllable *rdunī*; a left graph $\langle d \rangle$, a center graph $\langle g \rangle$, a vowel graph $\langle o \rangle$, and a right graph $\langle n \rangle$ is processed as $\langle dgon \rangle$, representing the syllable *dgon*; and so on.

To the right of the right graph may be written one of two FAR RIGHT GRAPHS, which are full forms of the graphs for *s* and *d*.¹² A far right graph is

$\langle bu \rangle$, or *ma* $\langle ma \rangle$; and sporadically omitted from right graph position where graphic ambiguity concerning the center graph could be resolved phonologically, as in the syllables *bka* $\langle bk \rangle$, *mtha* $\langle mth \rangle$, or *mkha* $\langle mkh \rangle$. Such inconsistencies were presumably eradicated in the ninth-century language reforms of King Khri Gtsug-lde-btsan.

The place-holding graph in right-graph position also allows the writing of diphthongs—for example, *beu* $\langle be/u \rangle$, *paañ* $\langle pa/añ \rangle$, *mao* $\langle ma/o \rangle$. In this position, *a-tshuñ* in effect represents smooth vocalic ingress into the second vowel of the diphthong, but within a single syllable, since the graphs are not separated by the syllable-marking dot *tsheg*. Here again it apparently took some time to establish the convention: in the archaic manuscripts we sporadically find diphthongs written as two syllables, and sporadically as well we find such graphic sequences as $\langle pi \rangle$ and $\langle bi \rangle$ representing what must surely have been the syllables *pai* and *bai*. Once again, the linguistic standardization of the ninth century apparently intended to establish a universal convention in this regard, although it is doubtful that there was in fact any effective standardization prior to the period of the Sa-skya hegemony.

The writing of such diphthongs—with *a-tshuñ* marking the absence of consonant onset of the second vowel—apparently underlies the convention of writing *a-tshuñ* as a BOTTOM GRAPH to indicate long vowels in the transliteration of Sanskrit. Such long vowels were in all likelihood heard as equivalent to Tibetan geminate vowels—Sanskrit *kā* as Tibetan *kaa*, Sanskrit *kī* as Tibetan *kii*, Sanskrit *kū* as Tibetan *kuu*. An *a-tshuñ* in the bottom graph position, with the appropriate vowel graph over or under the center graph, would be a convenient abbreviation for such recurring geminate diphthongs, instead of writing *a-tshuñ* in right graph position and repeating the same vowel graph; such an abbreviation too is consistent with the conventions for graphic abbreviation used elsewhere in the language. That this was in fact the origin of the transliteration convention is indicated by the fact that it is used to indicate length in Sanskrit vowels only where length is in fact quantitative, as in *A* or *F*, but not where the so-called long vowel is qualitatively different from its short equivalent, as in *ai* or *au*, where another convention—writing the vowel graph twice—is used instead.

¹² The graph $\langle d \rangle$ in far right position, representing a postfinal *-d* or *da-drag* "strong *d*," is found in some archaic manuscripts recovered from Central Asia; in some West Tibetan

processed after the preceding right graph: thus a center graph $\langle g \rangle$, a bottom graph $\langle y \rangle$, a vowel graph $\langle u \rangle$, a right graph $\langle r \rangle$, and a far right graph $\langle d \rangle$ is processed as $\langle gyurd \rangle$, representing the syllable *gyurd*; a left graph

Primitive societies are oral, not because they lack graphic expression, but on the contrary because their graphic expression is independent from the voice, marking signs on human bodies in answer to voice, but autonomously, and not aligned on voice; conversely, barbarian civilizations are scriptural, not for loss of voice, but because the graphic system has lost its independence and proper dimensions, has aligned itself on voice, subordinated itself to it . . .

—Gilles Deleuze and Félix Guattari,
Anti-Oedipus

$\langle d \rangle$, a center graph $\langle g \rangle$, a vowel graph $\langle o \rangle$, a right graph $\langle \bar{n} \rangle$, and a far right graph $\langle s \rangle$ is processed as $\langle dgōñs \rangle$, representing the syllable *dgoñs*; and so on.¹³

materials as late as the thirteenth century; and in the writings of the Tibetan grammarians, where it is an allophone of the past tense suffix *-s*.

¹³ There still remain a few sequences of consonant graphs which are ambiguous where there is no overt vowel graph—that is, where there is the zero vowel graph—and no top or bottom graph to identify the center graph, and which cannot be disambiguated by the use of the place-holding graph *a-išun*. For example, the sequence $\langle dgs \rangle$ is ambiguous between the readings $\langle dgas \rangle$ and $\langle dags \rangle$, and, similarly, the sequence $\langle dñs \rangle$ could be processed as either $\langle dñas \rangle$ or $\langle dañs \rangle$. (Of course, the sequence $\langle dgos \rangle$ can only be read one way, since the graph $\langle o \rangle$ sits unambiguously on top of the center graph $\langle g \rangle$, just as in $\langle dogs \rangle$ the graph $\langle o \rangle$ sits unambiguously on top of the center graph $\langle d \rangle$.) These ambiguous sequences are often disambiguated by yet another convention: if the sequence is to be processed as representing a syllable with no preinitial, then the center graph is identified by writing a phonologically nonfunctional $\langle w \rangle$ as the bottom graph beneath it. Thus the sequence $\langle dgs \rangle$ is read only as $\langle dgas \rangle$, representing the syllable *dgas*. The syllable *dogs* is represented instead by the unambiguous graphic sequence $\langle dwags \rangle$, although the use of this convention is in fact highly irregular.

4. THE SCRIPT

The Tibetan script is, I believe, esthetically one of the most pleasing of the Indic scripts; the following brief discussion can do little more than briefly indicate the styles of handwriting, without exploration of details. Equivalent to our hand printing are the graphs called *dbu-tsan* "with a head," referring to the horizontal line at the top of many of the graphs. Figure 4 shows two different folio sides from a manuscript written in the *dbu-tsan* script; note the section headings and instructions written in smaller script. The *dbu-tsan* writing is also that generally used in books printed from carved woodblocks, as in Figure 5.

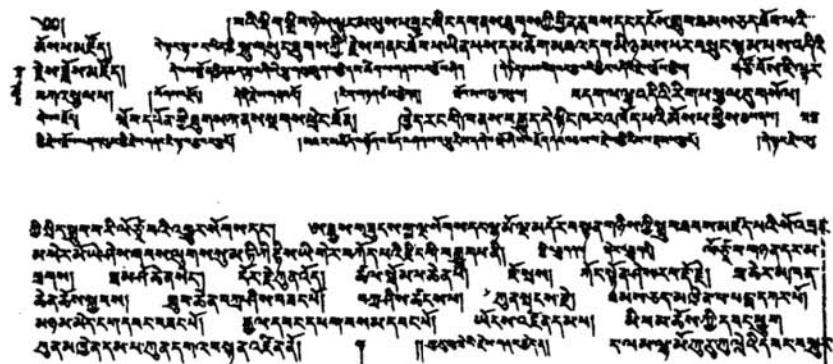


Figure 4. Two manuscript folio sides in *dbu-tsan* writing

Equivalent to our cursive are the graphs called *dbu-med* "headless." Cursive writing in turn may be either the relatively careful *dpe-yig* "book writing," or the more rapid *nkhyug-yig* "running writing," used, for instance, in personal correspondence. The last two examples, in Figure 6, are from two different *dbu-med* manuscripts, both of which use *dpe-yig* in the body of the text but *nkhyug-yig* for the section headings and instructions.

There is, practically speaking, only a single Tibetan punctuation mark—the *šad* or vertical stroke. This should not be confused with our period or comma: it is not so much a syntactic signal as it is an indication of where the

reader—and all Tibetans read out loud¹⁴—can pause and take a breath. Thus the *śad* is often but not necessarily found after major syntactic units such as sentences; and it occurs not only after such units, but anywhere a reader might pause—the end of every line of poetry, after a vocative, and between individual items in a long list.

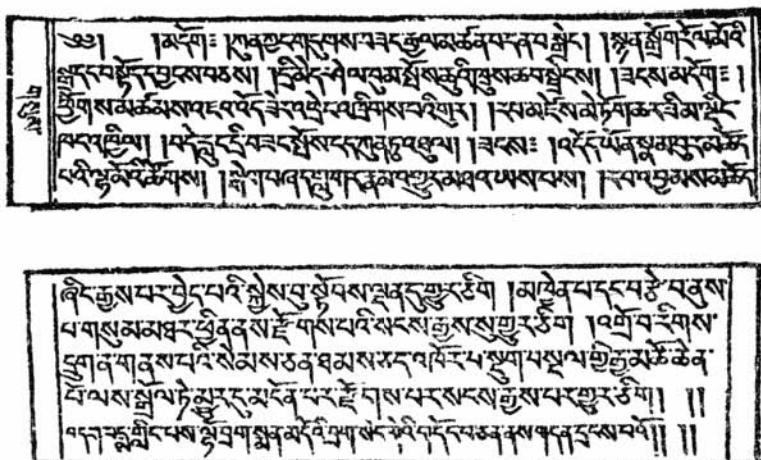


Figure 5. Two woodblock print folio sides in dbu-tshān writing

There are various types of *śad*, both plain and ornamental. A single vertical stroke is called *tshig-śad* or *rkyai-śad*, a double stroke is called *ñis-śad*, and two double strokes separated by a space are called *bzi-śad*. A *ñis-śad* can be seen starting a new section on the last line of the second folio in Figure 4; a *bzi-śad* can be seen ending the text and the eclophon on the last two lines of the second folio in Figure 5. When a *bzi-śad* is used to mark the end of

¹⁴ Reading aloud rather than silently appears to be the norm in human history. Jorge Luis Borges, in his essay "On the Cult of Books," sees the transition to modernity in "the predominance of the written word over the spoken one," and notes the precise instant this process began in Western history—when St. Ambrose, Bishop of Milan, was observed by his disciple St. Augustine to read with "his eyes moving] over the pages, and his soul penetrat[ing] the meaning, without his uttering a word or moving his tongue." That moment was still remembered thirteen years later, in Book Six of the *Confessions*, when, as Borges says, "that singular spectacle still troubled him: a man in a room, with a book, reading without articulating the words."

chapters in a book, we occasionally find the chapter number written in the space between the pairs of vertical strokes.

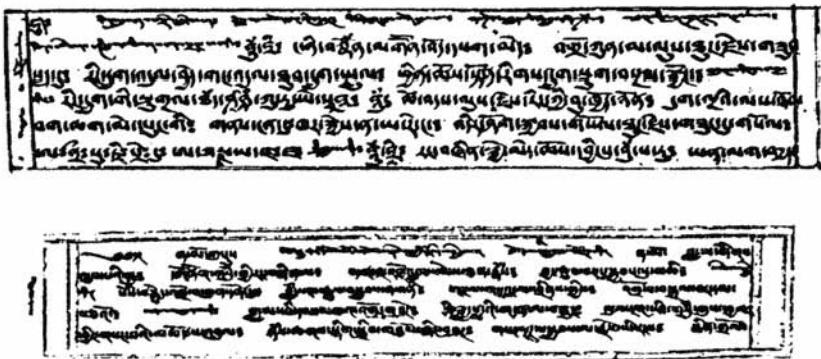


Figure 6. Two examples of manuscripts in *dbu-med* writing

A special *gter-ṣad*—two small circles, one above the other, separated by a short horizontal line¹⁵—is used in writing *gter-ma* or “hidden treasures,” texts supposedly hidden by Padmasambhava in the eighth century and then discovered, centuries later, by a special class of seers called *gter-ston* “revealers of hidden treasure.” The two manuscripts shown in Figure 6 are both *gter-ma*, and the *gter-ṣad* can be seen after each line of verse. In addition, we also find a variety of ornamental *tshig-ṣad* “strokes with dots,” such as the one marking the end of the section on the last line of the second folio in Figure 4.

We might also mention here the ornamental *mgo-yig* “head letters” often found on the *recto* of each folio in a Tibetan book. The most common type of *mgo-yig* can be seen, in *dbu-tsan*, in the upper left corner of the first folios

¹⁵ The source of the *gter-ṣad* is obscure, but in a number of eighth- and ninth-century manuscripts from the caves near Tun-huang we find, sporadically, a variety of *tshig* formed with two small circles, one above the other, in various combinations with vertical and horizontal lines. My guess—and it is a guess—is that the *gter-ṣad* is originally a graphic imitation of the Sanskrit *visarga*, just as the *tshig-ṣad* and *ñis-ṣad* derive from the Sanskrit single and double *danda*.

in Figure 4 and Figure 5, and, in *dbu-med*, in the upper left corner of the second folio in Figure 6. In *gter-ma* the *mgo-yig* often takes other forms, as in the upper left corner of the first folio in Figure 6.

An ellipsis in the text—for example, where the text gives just the first few words of a repeated chorus or a well-known prayer—is marked with the sign XXX, called *ku-ni-lha~ko-ru-kha~sku-ru-kha gsum < sku-ru* “paddlewheel,” or sometimes with a stack of three short horizontal lines; the latter device can be seen marking a repeated chorus in the first, second, and fourth lines of the first folio in Figure 5.



Figure 7. Charm to lock the mouth of slander

There are two ways we can characterize the sounds of a language—by describing the way the sounds are produced by the ARTICULATORY organs of tongue, lips, and glottis; and by describing the physical ACOUSTIC properties of the sound those organs produce. Our aim here is to describe the sounds of Old Tibetan in a way that will shed light on other questions as well—for example, that will help us understand why we find the present stem *sems* < *N-SAM-D* “thinks,” or the future stem *dgum* < *G-GUM* “will kill.” In Tibetan, it is interesting to note, such questions require both articulatory and acoustic answers.

1. ARTICULATORY DESCRIPTIONS

1.1. VOWELS

Old Tibetan vowels are phonemes that may function as syllabic nuclei. Put another way, vowels are phonemes that may by themselves constitute a syllable. In Old Tibetan *ka* and *a* are both possible syllables, while *?k* and *?r* are not. A syllabic phoneme such as *a* is therefore a VOWEL; a nonsyllabic phoneme such as *k* and *r* is a consonant.

Bbbbblllllbbblblodschbg?

—James Joyce,
Ulysses

There are five vowels in Old Tibetan—*u*, *o*, *a*, *i*, and *e*. These five vowels are distinguished according to the position of the tongue as either BACK or FRONT; according to the height of the tongue as either HIGH or LOW; and according to the shape of the lips as either ROUNDED or SPREAD. The vowel *u* is a HIGH

BACK ROUNDED vowel; the vowel *o* is a LOW BACK ROUNDED vowel; the vowel *a* is a LOW BACK SPREAD vowel; the vowel *i* is a HIGH FRONT SPREAD vowel; and the vowel *e* is a LOW FRONT SPREAD VOWEL. These three descriptions exhaustively characterize the Old Tibetan vowels. The vowel *e*, for example, is completely specified by its description as the Old Tibetan low front spread vowel.

Note that in Old Tibetan there are no front rounded vowels (although front rounded vowels such as *ü* and *ö* do appear in some New Tibetan dialects and, presumably, to some degree in Middle Tibetan as well). This asymmetry may be expressed as a phoneme structure constraint—that is, a rule which puts constraints on the internal structure of Old Tibetan phonemes—as follows:

RULE 1. All front vowels must be spread.

This constraint is a rule about possible phonemes. No derivation in Old Tibetan can yield a front rounded vowel, since every front vowel automatically is a spread vowel.

For example, the Old Tibetan present stem inflectional suffix *-D* moves preceding back vowels to the front of the mouth. Thus, in the presence of this suffix, the low back spread vowel *a* becomes the low front spread vowel *e* (for example, *ngrel* <*N-GRAL-D* “explains”); but the high back rounded vowel *u* becomes the high front spread vowel *i* and not the high front rounded vowel *?ü* (for example, *ndzin* <*N-DZUÑ-D* “grasps,” rather than *?ndzün*), because, as Rule 1 describes, in any derivation the high front rounded vowel *?ü* automatically becomes the high front spread vowel *i*. Indeed, the loss of this rule, and the concomitant development of phonemic front rounded vowels, characterizes the development of several New Tibetan dialects, where we find, for example, New Tibetan (Lhasa) *khü* <*gus*> “faith” *khö* <*gos*> “clothes,” *thü* <*dud*> “smoke” *thö* <*dod*> “substitute.”¹

¹ Of course, Old Tibetan may have had a SOUND something like *ü* or *ö*—say, when the vowel *u* or *o* occurred before the dental finals *-d* or *-s*—but then that sound did not count as being DIFFERENT from *u* or *o*. It was only when that difference began to count, probably around the time the final *-d* or *-s* was ceasing to be pronounced, that we can say there emerged phonemic front rounded vowels—that is, when, instead of contrasting *rgu* “cause” with *rgud* “string,” the language contrasted *rgu* with *rgü*, or, instead of contrasting *bzo* “craft” with *bzöd* “patience,” the language contrasted *bzo* with *bzö*.

1.2. CONSONANTS

1.2.1. Place

Old Tibetan consonants can be distinguished according to the PLACE OF ARTICULATION as being labial, dental, retroflex, palatal, velar, or glottal. These distinctions are, of course, structural: the actual position of the articulators in Old Tibetan is, as one might expect, probably impossible to recover. We can, however, assign Old Tibetan consonants to the general area of their articulation in the mouth—the LABIAL consonants *b*, *p*, *ph*, *m*, and *w* presumably articulated by the lips; the DENTAL consonants *d*, *t*, *th*, *n*, *dz*, *ts*, *tsh*, *z*, *s*, and *l* presumably articulated by the tongue placed somewhere behind the upper teeth; the single RETROFLEX consonant *r* presumably articulated with the tongue tip curled up and back;² the PALATAL consonants *ñ*, *dž*, *tš*, *tʃ*, *z̥*, *ʒ*, and *y* presumably articulated by the tongue placed somewhere on or near the hard palate; the VELAR consonants *g*, *k*, *kh*, and *ñ* presumably articulated with the back part of the tongue touching the soft palate; and the GLOTTAL consonants *?* and *h* presumably articulated by the glottis or vocal cords alone.³

² At least historically a postinitial consonant *r* moved a preceding stop into such a retroflex position—for example, Old Tibetan *drug* “six” > New Tibetan (Dpari) *drux* (Golok) *druk* (Ladakh) *duk* (Dbus) *fuk* (Lhasa) *fu* (Lhasa aristocratic) *fhu*, Old Tibetan *spring* “cloud” > New Tibetan (Purik) *spring* (Derge) *trim* (Dbus) *fin* (K'ang-ting) *fren* (Lhasa) *fin* (Lhasa aristocratic) *fśin* (Ladakh) *sin*.

³ There are several lines of evidence leading to the conclusion that the Old Tibetan graph <?> represented a glottal stop and the graph <h> represented a glottal fricative. First, there is the virtual unanimity of the New Tibetan dialects, where we find glottal stops consistently where Old Tibetan presumably had a glottal stop as well—for example, Old Tibetan *za-ma* “mother” > New Tibetan (Ladakh) *zama* (Dbus) *zama* (Khams) *zama*, Old Tibetan *za-tshe* “older sister” > New Tibetan (Ladakh) *za-tshe* (Balti) *za-se* (Dbus) *za-tshe*, Old Tibetan *rog-rgya* “beard” > New Tibetan (Ladakh) *rogkya* (Dbus) *rogja*. We also find such classical doublets as *zos-ko-kos-ko-ko-sko* “chin” and *rog-ma-lkog-ma* “throat,” which certainly seem to place the phoneme represented by the graph <?> in the back of the throat.

In this regard the remarks of the Tibetan grammarians are of interest. Following the Sanskrit tradition, they group aspirates, fricatives, and vowels together as *srog-iśien* “breathy (*mahāprāṇa*),” as opposed to all the other phonemes, which are *srog-iśhūñ* “non-breathy (*alpaprāṇa*).” Given an idiosyncrasy of the Tibetan descriptive apparatus, the glottal stop ? is grouped with the vowels, and it becomes necessary to account for it. Si-tu mahāpañḍita,

Such distinctions of place can have morphological significance. For example, there cannot be two labial consonants in the same syllable onset: there can be no syllables with the form ?*brma* or ?*mpho* parallel to *brda* or *mtho*. Thus we find such regular tense stems as *bris* < *b-BRI-s* "wrote," *bod* < *b-BOD-s* "called," and *rmos* < *b-RMO-s* "ploughed," with the inflectional past stem prefix *b-* omitted in accordance with this constraint. Again, we find place assimilations in several verb stems, where the inflectional present stem suffix *-D* moves both back vowels and velar nasals to the front of the mouth—for example, *sbed* < *N-SBA-D* "conceals," *sel* < *N-SAL-D* "clears away," *ndren* < *N-DRAÑ-D* "leads," and *ndzin* < *N-DZUÑ-D* "grasps."

writing in 1744, makes the following interesting distinction: *mgrin-pa gdañs-nas brdžod dgospai phyir* ?a-yig ma-gtogs-pai srog-tshen-gi yi-ge-rnams phye-bai rtsol-ba-tšan-dañ, ?a-yig *mgrin-pa ma-phye-bar brdžod-pai phyir* bitsum-pai rtsol-ba-tšan "Since they must be pronounced with the throat wide open, the breathy phonemes other than ? are called OPEN ARTICULATIONS; but since ? must be pronounced with the throat closed it is called a CLOSED ARTICULATION."

Further evidence is provided by Tibetan transcriptions of Chinese words, where the graph <?> is consistently used to transcribe what have been independently reconstructed as Middle Chinese glottal stops. For example, on the Sino-Tibetan treaty pillar of 821, Middle Chinese *?ywo is transcribed as <?u>. Similarly, in a series of manuscripts from Central Asia, we find Chinese Buddhist texts transliterated into Tibetan, presumably so they could be recited by Tibetan travelers; where such fragments have been identified and compared with their Chinese originals, we find Middle Chinese *?ak transcribed as <?ag>, Middle Chinese *?ai as <?e> or <?ii>, Middle Chinese *?yen as <?in>, Middle Chinese *?wo as <?o>, and Middle Chinese *?wan as <?un>.

Similar evidence leads to the conclusion—perhaps less firm—that Old Tibetan had a corresponding glottal fricative *h*, written with the graph <*h*>. Again, we find New Tibetan glottal fricatives representing what were presumably Old Tibetan glottal fricative initials—for example, Old Tibetan *hor* "Mongol" > New Tibetan (Derge) *hor* (Lhasa) *h*. In the classical language we find such doublets as *hrił~gril* "round" and *lhan~glan* "patch," and we may note the spelling <*ha-mdo*> for the classical place name ?a-mdo "Amdo," attested in the *Deb-ther shon-po* of Gžon-nu-dpal, written in 1478. Finally, on the Sino-Tibetan treaty pillar of 821, Tibetan <*h*> is used to transcribe, indiscriminately, both the voiced and voiceless velar fricatives *y* and *x* independently reconstructed for Middle Chinese. We find Middle Chinese *?ya transcribed as <*ha*>, Middle Chinese *?yan as <*han*>, Middle Chinese *?wo as <*ho*>, and Middle Chinese *?au as <*heu*>; similarly, on that same pillar, Old Tibetan *hab* is transcribed by the character representing Middle Chinese *?ap.

1.2.2. Closure

It is useful to distinguish three degrees of CLOSURE between the articulators of a phoneme—between the tongue and the palate, for example, or between the two lips, or between the lower lip and the upper teeth. In STOPPED phonemes the articulators are pressed together sufficiently to cut off the airstream completely; in NARROWED phonemes the articulators are closed sufficiently to produce a hissing turbulence in the airstream; and in OPEN phonemes the articulators are not closed sufficiently to disturb the airstream at all.

Using these distinctions we can characterize four types of consonant in Old Tibetan. STOPS are phonemes, such as *k*, *b*, or *n*, which are stopped but not narrowed; FRICATIVES are phonemes, such as *f*, *z* or *s*, which are narrowed but not stopped; APPROXIMANTS are phonemes, such as *l*, *w*, or *a*, which neither stopped nor narrowed—that is, which are open; and AFFRICATES are phonemes, such as *pf*, *ts*, or *dz*, which are both stopped and narrowed—that is, which begin as stops and end as fricatives.

Note that approximants such as *a*, *u*, or *e*, which can function as syllabic nuclei, are, of course, VOWELS; approximants such as *y*, *r*, or *l*, which cannot function as syllabic nuclei, we will call GLIDES. There were thus in Old Tibetan the STOPS *t*, *g*, *k*, *kh*, *d*, *t*, *th*, *b*, *p*, *ph*, *ñ*, *ñ*, *n*, and *m*, the AFFRICATES *dz*, *ts*, *tsh*, *dz*, *ts*, and *tsh*, the FRICATIVES *h*, *z*, *ʃ*, *ʒ*, *s*, and *s*, and the GLIDES *y*, *r*, *l*, and *w*.

Tibetan makes a significant distinction between consonants with a stopped component and consonants without a stopped component. Such STOPPED consonants are stops and affricates; UNSTOPPED consonants are fricatives and approximants. For example, in Old Tibetan only stopped consonants can be prenasalized; again, in Old Tibetan only unstopped preinitial consonants can be preceded by the past and future stem *b-* prefix.

Affricates frequently alternate with their corresponding fricatives. For example, in verbal inflection the intransitive root *DŽUG* "enter" forms the past stem *žugs* < *θ-DŽUG-s*; the intransitive root *DZAG* "trickle" forms the past stem *zags* < *θ-DZAG-s*; the transitive root *DŽIB* "suck" forms the past stem *bžibs* < *b-DŽIB-s*; and the transitive root *DZAR* "hang up" forms the past stem *bzar* < *b-DZAR-s*. In the change from *dž* to *z* or *dz* to *z*, a stopped consonant changes into a consonant of exactly the same description except that now it

is not stopped. This process we will call UNSTOPPING.⁴

1.2.3. Voice onset time

It is common to describe Tibetan consonants according to the traditional categories of Sanskrit phonology, wherein consonants are either voiced or voiceless and either aspirated or unaspirated; Old Tibetan, with a threeway distinction of consonants, then appears rather like a defective version of the Sanskrit fourfold system, with voiced aspirated stops such as *gh* and *bh* somehow omitted.

⁴ Unstopping is a "natural" process in Tibetan, which seems willing to change an affricate into the corresponding fricative not only inflectionally but historically as well. Old Tibetan *la-sogs-pa* "and so on" is found written in archaic Central Asian manuscripts as <*las-stogs~lastsogs~la-stsogs*>, indicating Proto-Tibetan **tsogs* "group" > Old Tibetan *sogs*; presumably as well Proto-Tibetan **gñis-btšu* "twenty" > Old Tibetan *ñi-žu*. Unstopping is also found in dialect variations. For example, we find Old Tibetan *tsha-bo* "nephew" > New Tibetan (Golok) *sawo*, Old Tibetan *tsha-riñ* "long life" > New Tibetan (Golok) *seruñ*, Old Tibetan *tshogs* "assembly" > New Tibetan (Golok) *sok*; or, similarly, Old Tibetan *mdžug* "tail" > New Tibetan (Balti) *žug*, Old Tibetan *ndžigs* "fear" > New Tibetan (Balti) *žig*, Old Tibetan *mdzub* "finger" > New Tibetan (Balti) *zu*, Old Tibetan *mdzo* "yak hybrid" > New Tibetan (Balti) *zo*. In the Middle Tibetan dialect from which Monguor borrowed its Tibetan loanwords, Old Tibetan *tsh* > Middle Tibetan *s*, as in Old Tibetan *tsha-mo* "niece" > Monguor *samo*, Old Tibetan *tshoñ-pa* "merchant" > Monguor *soñwa*, Old Tibetan *tsha-riñ* "long life" > Monguor *serañ*, Old Tibetan *tsha-tsha* "good luck charm" > Monguor *sasa*. Similar dialectal unstopping is found as well in the archaic manuscript material from Central Asia: in one manuscript we consistently find <*tham-šad*> for Old Tibetan *thams-šad* "all" and <*sem-šan*> for Old Tibetan *sems-šan* "sentient creature"; in another we consistently find <*se*> for Old Tibetan *rtse* "peak" and <*žug*> for Old Tibetan *mdžug* "tail." Finally, in the classical language itself we find such doublets as *rdže-sa-že-sa* "honorific expression" and *LDŽEN-ŽEN* "penetrate," and such word families as *ršUM* "shrink, shudder," *šUM* "weep, tremble," *DžUM* "shudder, shrink, contract," *žum-pa* "fear, dismay."

Indeed, comparative data allow us to reconstruct Proto-Tibetan affricates that had become unstopped by the time of Old Tibetan. For example, we find Bahing *dža*, Nagari *džya*, Burmese *tsa*, Garo *tsha* "eat" but Old Tibetan *zA* "eat," Karen *džon*, Burmese *tsi*, Lisu *dzi*, Akha *dzi* "ride" but Old Tibetan *žON* "ride an animal," Bahing *dži-džim*, Akha *džim-tši* "fresh (water)," Burmese *tshim* "delicious," but Old Tibetan *žim* "good tasting." Thus we can reconstruct Proto-Tibetan **dza* "eat" > Old Tibetan *zA*, Proto-Tibetan **dzyon* > **džon* "ride" > Old Tibetan *žON*, and Proto-Tibetan **dzyim* > *džim* "good tasting" > Old Tibetan *žim*.

Actually, the term VOICE refers to the state of the glottis: the vocal cords may either be touching along their entire length, so that air passing between them causes regular vibrations; or else they may be separated, so that such regular vibrations do not occur. The term ASPIRATION does not refer to some phenomenon distinct from voice; rather the term refers to a period of voicelessness during and after the release of an articulation. Instead of viewing voice and aspiration as two independently varying phenomena, it makes more sense, as far as Old Tibetan is concerned, to view the consonants as lying along the single multivalued dimension of VOICE ONSET TIME.

For example, at a particular moment, the two articulators of a stop consonant—the two lips, or the tongue and the top of the front teeth, or the tongue and velum—move apart sufficiently to let air pass out through the mouth. The vocal cords may begin vibrating BEFORE this release of closure, SIMULTANEOUSLY with the release, or some time AFTER the release: in the first case we have a VOICED stop, in the second a VOICELESS stop, and in the third an ASPIRATED stop.⁵

Thus Old Tibetan distinguishes, in the timing of onset of voice, the VOICED consonants *g, d, b, dž, dz, ž, z, ñ, ñ, n, m, y, r, l, and w* from the VOICELESS consonants *k, t, p, tš, ts, š, and s*, and from the ASPIRATED consonants *kh, th, ph, tšh, and tsh*. Note that the glottal stop *?* and glottal fricative *h* do not have any value for voice onset time, since they are articulated by the glottis itself.

Note too that only STOPPED consonants—that is, stops and affricates—can be

⁵ Similarly, a fricative may be accompanied by vibration of the vocal cords from the start of its articulation; or the vibration may begin at the moment the articulators separate to form a following vowel; or the vibration may begin some time after the articulators have separated. Here again we have a VOICED, VOICELESS, and ASPIRATED fricative, respectively.

The timing of the onset of this vibration in milliseconds varies from language to language: different languages choose different points along this continuum in forming oppositions among consonants, just as languages choose different numbers of oppositions to form. Old Tibetan makes a three-way distinction among stopped non-nasal consonants, but only a two-way distinction among fricatives; New Tibetan (Lhasa) makes only a two-way distinction among stopped non-nasal consonants, and has only voiceless fricatives. English and New Tibetan (Lhasa) both make a two-way distinction between more-voiced and less-voiced stopped non-nasal consonants; but the more-voiced consonants in English are voiced prior to release, and the more-voiced consonants in Lhasa city are voiced only at release.

aspirated: fricatives may be voiced or voiceless, but Old Tibetan apparently had no phonemes of the form ?sh or ?sh.⁶ We can express this asymmetry as a second phoneme structure constraint:

RULE 2. All aspirated consonants must be stopped consonants.

This rule then constitutes a derivational constraint on the inflectional process of UNSTOPPING: when the inflectional rule operates on the aspirated affricates tsh and tsh, it yields the aspirated fricatives ?sh and ?sh, which, under Rule 2, immediately become the corresponding affricates tsh and tsh.

Morphologically, in Old Tibetan we find a strong tendency to voice dissimilation: that is, where a stopped initial in a verb root is preceded by an inflectional prefix, and the resulting stem must be adjusted to conform with syllable structure constraints, the root initial is adjusted to a form where its voice onset time is as DISSIMILAR as possible to the voice onset time of the prefix. For example, we find *n̥thor* < *N-TOR* “scatters,” *nkhrol* < *N-KROL* “rings,” *ntsho* < *N-TSO* “nourishes.” Indeed, this tendency is sufficiently strong that, in the case of the past tense *b-* prefix, it operates even on syllables that are otherwise acceptable—for example, *bkrol* < *b-GROL-s* “rang,” *bniñs* < *b-DIÑ-s* “scattered,” *btsugs* < *b-DZUG-s* “pierced.”

1.2.4. Nasality

A NASAL phoneme is produced with a lowered velum, or soft palate, allowing air to pass out through the nose; a non-nasal or ORAL phoneme is produced with the velum raised to form a velic closure in the upper pharynx, blocking the passage of air to the nose. In a nasal stop the articulators block the mouth entirely until release, while air flows out through the nose; it is because of this air flow, with the mouth acting as a variously shaped resonating chamber, that nasals share with approximants the acoustic property often called SONORANCE. In Old Tibetan, the velar, palatal, dental, and labial places of articulation each has a corresponding nasal stop—the VELAR NASAL ñ, the

⁶ In addition, nasals and glides were apparently all voiced in Old Tibetan, which is, of course, not at all unusual: voiceless sonorants are relatively rare in the languages of the world. This asymmetry—unlike the lack of aspirated fricatives—is not morphologically significant.

PALATAL NASAL *ñ*, the DENTAL NASAL *n*, and the LABIAL NASAL *m*.⁷

In addition, Old Tibetan oral stopped consonants—that is, non-nasal stops and fricatives—could be PRENASALIZED. In prenasalization, there is a brief lowering of the velum before release of the stop, allowing air to pass out through the nose momentarily before the stop is articulated. Prenasalization is an important inflectional process in Old Tibetan, marking the present stem of a large number of verbs—for example, *nkhum* < *N-KHUM* “shrinks,” as opposed to *khums* < *KHUM-s* “shrank,” *ndud* < *N-DUD* “bends,” as opposed to *btud* < *b-DUD-s* “bent,” *n-thub* < *N-TUB* “chops,” as opposed to *btubs* < *B-TUB-s* “chopped.”

2. ACOUSTIC DESCRIPTIONS

The descriptions given so far exhaustively characterize the phonemes of Old Tibetan: thus the phoneme *e* is completely characterized as the Old Tibetan LOW FRONT VOWEL (since we know, from Rule 1, that it is SPREAD as well); and the phoneme *dz* is completely characterized as the Old Tibetan VOICED DENTAL AFFRICATE. Some morphophonemic rules in Tibetan, however, require acoustic as well as such articulatory descriptions: some sound changes seem to be conditioned not by the position and movement of the articulatory organs but rather by the auditory properties of the sounds themselves.

2.1. GRAVITY

It can be observed that there are considerable similarities between sounds made in the back of the mouth and sounds made in the front of the mouth, as opposed to sounds made with some part of the tongue raised in the

⁷ Vowels, of course, can also be NASALIZED—that is, articulated with a lowered velum so that air passes out through both nose and mouth. There is little evidence that Old Tibetan had nasalized vowels, but, in some dialects of New Tibetan, many Old Tibetan syllables with final nasal stops have become syllables with nasalized vowels—for example, Old Tibetan *yon-tan* “virtue” > New Tibetan (Lhasa) *yõnten*, Old Tibetan *mtshan* “name” > New Tibetan (Lhasa) *tshen*, Old Tibetan *snam-bu* “woolen cloth” > New Tibetan (Lhasa) *nænpu*, Old Tibetan *tshañ* “beer” > New Tibetan (Lhasa) *tshax*. In other words, in such syllables, the syllable-final tongue or lip gesture has ceased to be made, but the lowering of the velum has continued.

middle of the mouth.⁸ It is easy to see that both velar and labial sounds are produced with the mouth acting as a single large resonating chamber, while dental and fricative sounds are produced with the tongue dividing the mouth into two smaller chambers. Sounds made with a constriction at either end of the mouth have most of their acoustic energy at a lower pitch than corresponding sounds made in the middle of the mouth: hence we find that *k* and *p* actually sound more alike than do *t* and *d*. Velar and labial consonants, based on this acoustic phenomenon, are called GRAVE, and dental and labial consonants are called ACUTE.

This acoustic description cuts across the articulatory description of place and allows us to express some common dissimilation patterns in Old Tibetan. For example, preinitial *g-* and *d-* are in complementary distribution: the grave preinitial *g-* occurs only before acute initial consonants; the acute preinitial *d-* occurs only before grave initial consonants. Similarly, the acute postfinal *-s* occurs only after grave final consonants; the Old Tibetan acute present stem inflectional suffix *-D* disappears after acute final consonants and appears as the acute allomorph *-s* only after grave finals. This process of GRAVITY DISSIMILATION is characteristic of the classical language.

2.2. SONORANCE

In many languages, nasals and glides form a group with the vowels.⁹ Nasals, glides and vowels are acoustically SONORANT, as opposed to other stops, affricates and fricatives, which are called OBSTINATE. The acoustic description cuts across the articulatory descriptions of closure and nasality, just as acoustic gravity cuts across articulatory descriptions of place.

Sonorants have in common a resonant quality that arises from their having

⁸ For example, note how the velar fricative in **kɔx* "cough" (compare Old English *cōhētan* "shout," Middle Low German *kuc'ōn* "cough," Middle High German *kūchen* "exhale") becomes a bilabial fricative in *kɔf* <cough>. Note, too, that a ventriloquist will substitute velar consonants for the labial consonants he cannot make because his lips would move.

⁹ In English, for example, nasals and glides are syllabic—just like vowels—after a stop or fricative, as in such two-syllable words as *prizm* <prism>, *hindr* <hinder>, *sʌdn* <sudden>, or *teybl* <table>.

a relatively large amount of acoustic energy within a clearly defined overtone structure. In other words, the sonorants are "tone-like" sounds, while the obstruents are "noise-like" sounds. Thus, too, sonorants are normally voiced sounds; voiceless nasals, for example, are quite rare in the world's languages compared to voiced nasals.¹⁰

Tibetan syllable codas are either sonorant or obstruent. The sonorance of the coda has morphophonological effects on some following particles: in several cases, the initial of a particle is voiced after preceding sonorants and voiceless after preceding obstruents. For example, the coordinative conjunction -*tšin* "AND" takes the voiced form -*žin* after preceding sonorant finals, but takes the unvoiced form -*tšin* and -*sin* after preceding obstruent finals. Similarly,

Are musical sounds to other sounds as black and white is to colour? . . . Colours are not to objects one sees as a sound quality to sounds one hears. Or are they?

—Christian Wolff,
Prose Collection

in the archaic texts, the adversative conjunction -*Kyañ* "BUT" is found to take the voiced form -*gyañ* after preceding sonorant finals but the voiceless form -*kyañ* after preceding obstruent finals; in later Old Tibetan, the same adversative conjunction takes the voiced form -*yañ* after sonorants and retains the unvoiced form -*kyañ* after obstruents. Such changes seem related to the acoustic rather than the articulatory nature of the preceding syllable final.

3. THE PHONEMIC INVENTORY

In summary, the following appears to have been the phonemic inventory of Old Tibetan:

¹⁰ Voiceless sonorants, such as /ʃ/, /ʒ/, and /ɲ/ are, however, found in several New Tibetan dialects and in many Tibeto-Burman languages.

	FRONT	BACK	
	Spread	Round	
HIGH	<i>i</i>	<i>u</i>	
LOW	<i>e</i>	<i>a</i>	<i>o</i>

Table 4. The Old Tibetan vowels

	STOPS	AFFRICATES	FRICATIVES	GLIDES
	Oral	Nasal		
GLOTTAL	?			<i>h</i>
VELAR	<i>g</i> <i>k</i> <i>kh</i>	<i>ñ</i>		
PALATAL		<i>ñ</i>	<i>dž</i> <i>tš</i> <i>tšh</i>	<i>ž</i> <i>š</i>
RETROFLEX				<i>r</i>
DENTAL	<i>d</i> <i>t</i> <i>th</i>	<i>n</i>	<i>dz</i> <i>ts</i> <i>tsh</i>	<i>z</i> <i>s</i>
LABIAL	<i>b</i> <i>p</i> <i>ph</i>	<i>m</i>		<i>w</i>

Table 5. The Old Tibetan consonants

The following MINIMAL PAIRS may be cited to show that the distinctions discussed above are in fact phonemic—that is, functional in the language. For vowels, we note, for example, *ruñ* “proper” *roñ* “ravine” *rañ* “self” *riñ* “long” *reñ* “stiff,” and *nug* “potato” *rog* “black” *rag* “depends” *rig* “knowledge” *reg* “touches.” For consonants, we note, for example, *ka* “pillar” *kha* “mouth” *ña* “I,” *ko* “leather” *kho* “he” *ño* “face,” *khañ* “house” *gañ* “full” *ñañ* “nature,” *khal* “burden” *gal* “importance” *ñal* “fatigue,” *ñan* “bad” *-tšan* “POSSESSING,” *tšar* “simultaneous” *tšhar* “rain,” *ñes* “sure” *tšes* “QUOTATION” *tšhes* “grown big,” *tsha* “portion” *dža* “tea” *ña* “fish,” *tšag* “broken” *džag* “robbery” *ñañ* “notch,” *ñog* “dirty” *tog* “cap button,” *tiñ* “cup” *thiñ* “scatter!” *ñañ* “sleeps”

tal "quick" *thal* "dust," *thur* "down" *dur* cemetery," *thug* "soup" *dug* "poison," *dus* "time" *nus* "is able," *don* "meaning" *non* "presses," *nag* "black" *pag* "brick" *phag* "pig" *bag* "concern," *bug* "hole" *mug* "worm," *par* "printing block" *phar* "away" *bar* "middle" *mar* "butter," *mi* "man" *tsi* "mouse," *tse* "basket" *tshe* "life," *ntsag* "squeezes" *ndzag* "trickles," *ntshem* "sews" *ndzem* "shuns," *tsher* "thornbush" *ser* "hailstorm" *zer* says," *tshoñ* "commerce" *soñ* "went" *zoñ* "merchandise," *sub* "covers" *šub* "whispers," *šin* "firewood" *žin* "field," *su* "who" *šu* "abscess" *žu* "asks," *sol* "coal" *?ol* "throat," *sog* "shoulderblade" *?og* "neck," *sor* "gimlet" *hor* "Mongol." Note particularly the following minimal pairs of words with glottal stop initial, glottal fricative initial, and smooth vocalic ingress—*ol* "clover" *?ol* "throat," *og* "underpart" *?og* "neck," *hor* "Mongol" or "dropsy," *.hur* "alertness" *ur* "BUZZING NOISE," *?ar-pa* "thief" *har-pa* "hole," *?ar-po* "fieldworker" *har-po* "shining." Finally, minimal pairs with and without prenasalization include *ngro* "goes" *gro* "wheat," *nbu* "insect" *bu* "son," *ntshe* "hurts" *tshe* "time," *ndug* "stays" *dug* "poison."



Figure 8. Page from a *yoga* handbook

In Proto-Tibetan the syllable seems to have been differently structured in several respects than in Old Tibetan: for example, we can reconstruct Proto-Tibetan syllables such as **gryud* "string" and **rkuān* "net" which cannot occur in Old Tibetan. But we can do little more at this time than make sporadic hypotheses about the nature of these differences, and the discussion here will center on the structure of the syllable in Old Tibetan. This structure is defined by specific constraints on possible syllables. These constraints are of three sorts—length constraints, slot-filler constraints, and co-occurrence constraints. LENGTH CONSTRAINTS define the number of phoneme slots available in the syllable; SLOT-FILLER CONSTRAINTS define what phonemes may occur in each slot; CO-OCCURRENCE CONSTRAINTS define what phonemes in one slot can occur together with other phonemes in other slots.

1. LENGTH CONSTRAINTS

The Tibetan syllable consists of three parts—ONSET, NUCLEUS, and CODA. The nucleus of the syllable in Old Tibetan is always a single vowel.¹ The minimum

¹ While in Old Tibetan the syllabic nucleus always contains a single vowel, it seems we must recognize two COMPLEX NUCLEI in some Proto-Tibetan syllables, both of which had simplified into single vowels by the time the language was written down. Thus in many cases where we find a classical Tibetan *o* we must reconstruct a Proto-Tibetan nucleus we will write conventionally as **ua*, and in many cases where we find a classical Tibetan *e* we must reconstruct a Proto-Tibetan nucleus we will write conventionally as **ia*. This convention is used to indicate that the syllable contains a complex nucleus rather than an onset cluster with a postinitial glide. The convention thus distinguishes, for example, between Proto-Tibetan **THIAM* > Old Tibetan *THEM* "complete," on the one hand, and Proto-Tibetan **TIIYAM* > Old Tibetan *TSHAM* "agree," on the other.

For example, given Burmese *phwam* "fat" and Lushei *puam* "swollen," we may postulate Proto-Tibetan **sbuam* > Old Tibetan *sbom* "thick." Similarly, given Nung *gwa* and Lisu *gwa* "put on clothes," we may postulate Proto-Tibetan **GUA* > Old Tibetan *B-GO* "put on clothes," given Burmese *twañ* and Tiddim Chin *wñ* "hole," we may postulate Proto-Tibetan

*duañ > Old Tibetan *doñ* "hole," and given Burmese *parwak*, Rgyarong *korok*, and Kiranti *khorok* "ant," we may postulate Proto-Tibetan *gruag > Old Tibetan *grog* "ant." See also Burmese *kwan*, Proto-Tibetan *rkuan > Old Tibetan *rkon* "net," Burmese *thwa*, Proto-Tibetan *mthua > Old Tibetan *mho* "span," Burmese *swa*, Proto-Tibetan *sua > Old Tibetan *so* "tooth," Burmese *hwat*, Proto-Tibetan *GLUAD > Old Tibetan *GLOD* "loosen," and perhaps even Burmese *rwat* "old, tough," Proto-Tibetan *ruad > Old Tibetan *rod* "stiff." Note also Sanskrit svāha "RITUAL EXCLAMATION" > Old Tibetan *sua-ha <swā-hā> > New Tibetan (Dbus) *soha*.

This historical sequence Proto-Tibetan *ua > Old Tibetan *o* must be distinguished from the sequence Proto-Tibetan *wa > Old Tibetan *wa* (as in Burmese *tsha*, Proto-Tibetan *tshwa > Old Tibetan *tshwa* "salt"), and from the sequence Proto-Tibetan *o > Old Tibetan *o* (as in Burmese *thañ*, Proto-Tibetan *stoñ > Old Tibetan *stoñ* "thousand"). These sequences may be diagrammed as follows:

	BURMESE	PROTO-TIBETAN	OLD TIBETAN	*PT > OT
"thousand"	<i>thañ</i>	*stoñ	<i>stoñ</i>	<i>o</i> > <i>o</i>
"salt"	<i>tsha</i>	*tshwa	<i>tshwa</i>	<i>wa</i> > <i>wa</i>
"hole"	<i>thwañ</i>	*duañ	<i>doñ</i>	<i>ua</i> > <i>o</i>

In the same way, given Lepcha *grya* we may postulate Proto-Tibetan *kria > *rkia > Old Tibetan *rke* "lean," given Burmese *hyp* we may postulate Proto-Tibetan *liab > Old Tibetan *leb* "flat," given Bahing *dyam* "be straight," Burmese *atam* "straight long piece," and Nung *zdam* "flat," we may postulate Proto-Tibetan *ldiam > Old Tibetan *ldem* "straight," and given Bahing *dyam*, Tiddim Chin *dim*, and Vayu *dam* "full," we may postulate Proto-Tibetan *THIAM > Old Tibetan *THEM* "be full."

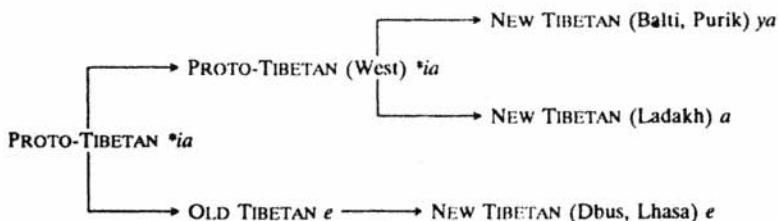
As above, this historical sequence Proto-Tibetan *ia > Old Tibetan *e* must be distinguished from the sequence Proto-Tibetan *ya > Old Tibetan *ya* (as in Burmese *pya* "bee," Proto-Tibetan *bya > Old Tibetan *bya* "bird"), and from the sequence Proto-Tibetan *e > Old Tibetan *e* (as in Burmese *ni*, Proto-Tibetan *NE > *NYE > Old Tibetan *ÑE* "be near"). (Remember, too, that a Proto-Tibetan *dental stop + ya > Old Tibetan palatal affricate + a, as in Proto-Tibetan *TIIYAM > Old Tibetan *TŠILAM* "agree.") These sequences may be summarized as follows:

	BURMESE	PROTO-TIBETAN	OLD TIBETAN	*PT > OT
"near"	<i>ni</i>	*ne	<i>ñe</i>	<i>e</i> > <i>e</i>
"bee/bird"	<i>pya</i>	*bya	<i>bya</i>	<i>ya</i> > <i>ya</i>
"flat"	<i>yap</i>	*liab	<i>leb</i>	<i>ia</i> > <i>e</i>

syllable consists only of a nucleus; the maximum syllable consists of an onset cluster of four consonants before the nucleus and a coda cluster of two consonants after the nucleus.² Between these two extremes lie syllables of intermediate length, including syllables with a coda of a single vowel. The historical change from Old to Middle to New Tibetan is characterized in part by a tendency to reduce the length of syllables from the maximum CCCCCVCC or CCCCVV syllables of Old Tibetan to the maximum CVC or CVV syllables of many New Tibetan dialects. Table 6 on the following page summarizes the possible syllable lengths in the classical language.

Two special cases are not included in the schematization. First, there are occasionally coda clusters of two vowels when a syllable with the lexical form -VV (invariably a diminutive such as *beu* "calf" or *byeu* "little bird") occurs with the adnominal particle, as in *beui* "of the calf," or before the statement particle, as in *beuo* "(It is) the calf." (Note also the onomatopoeitic *meao*

Western Tibetan dialects seem to have preserved Proto-Tibetan *ia where in Old Tibetan and other New Tibetan dialects Proto-Tibetan *ia has undergone change. For example, given New Tibetan (Ladakh) *thag* "bear" (Purik) *thyag* "lift" (Balti) *thyag-pa* "patience," we may hypothesize Proto-Tibetan *THAG > Old Tibetan THEG "lift, bear," and given New Tibetan (Ladakh) *lags-pa* (Purik) *hyax-mo* (Balti) *hyax-mo* "good," we may hypothesize Proto-Tibetan *LLAGS > Old Tibetan LEGS "be good." We can thus provide somewhat more historical detail in outlining this sound change:



² One of the initial difficulties in studying classical Tibetan is the shock of encountering such complex onset clusters as in *dgra* "enemy" or *bsgyur* "translated." English is quite impoverished in onset clusters: the maximum onset consists of a voiceless fricative plus a voiceless stop plus a glide, such as *str* in <*string*>, *spl* in <*splendid*>, *skw* in <*square*>, or *sky* in <*skew*>. On the other hand, we might add, English is much richer than classical Tibetan in coda clusters: the maximum coda cluster consists of four consonants, such as *kstɪs* in <*texts*>, *lʃθs* in <*twelfths*>, *mpst* in <*glimpsed*>, or *ksθs* in <*sixths*>.

"SOUND OF A CAT.") A coda cluster of THREE vowels is possible—but not often encountered—when such a syllable occurs both with the adnominal particle and before the statement particle, as in *spreuio* "(It is) the monkey's." Second, diphthongs in closed syllables are produced by two syntactic processes. The connective *Yañ* "ALSO" becomes *-añ* after preceding vowels in unstressed syllables, yielding such syllabic forms as *-paañ* and *-laañ*. And the conjunction *-am* "OR" after preceding vowels similarly yields such diphthongs as in *taam dream beuam nbriam* "horse or donkey or calf or yak-cow or . . ."

	<i>-θ</i>	<i>-C</i>	<i>-CC</i>	<i>-V</i>
<i>θ-</i>	<i>v</i>	<i>vc</i>	<i>vcc</i>	<i>vv</i>
	<i>o</i>	<i>og</i>	<i>oñs</i>	<i>oi</i>
<i>C-</i>	<i>cv</i>	<i>cvc</i>	<i>cvcc</i>	<i>cvv</i>
	<i>ka</i>	<i>bod</i>	<i>bubs</i>	<i>beu</i>
<i>CC-</i>	<i>ccv</i>	<i>ccvc</i>	<i>ccvcc</i>	<i>ccvv</i>
	<i>rga</i>	<i>rgud</i>	<i>rgoñs</i>	<i>byeu</i>
<i>CCC-</i>	<i>cccv</i>	<i>cccvc</i>	<i>cccvcc</i>	<i>cccvv</i>
	<i>rgya</i>	<i>rgyal</i>	<i>rgyags</i>	<i>rgyai</i>
<i>CCCC-</i>	<i>ccccv</i>	<i>ccccvc</i>	<i>ccccvcc</i>	<i>cccccvv</i>
	<i>brgya</i>	<i>brgyal</i>	<i>brgyuñs</i>	<i>brgyai</i>

Table 6. Old Tibetan syllable length constraints

2. SLOT-FILLER CONSTRAINTS

Slot-filler constraints prescribe which phonemes can occur in particular positions in the syllable. Indeed, we have already mentioned one such slot-filler constraint—the rule that the NUCLEUS of the syllable is always filled with a vowel.

The ONSET of the syllable consists of four slots, each of which may either be filled with a single consonant or left empty—that is, filled with zero. We will call these four slots, from left to right, the PRE-PREINITIAL, PREINITIAL, INITIAL,

and POSTINITIAL slots.³ The fillers of these slots are as follows.

- (1) When there is only one consonant in the onset, that consonant is in the INITIAL slot. The initial slot may be filled by any consonant—except, of course, the phoneme of nasalization *N*. Thus in the syllable *bod* the initial slot is filled by *b*, and in the syllable *thabs* the initial slot is filled by *th*.
- (2) When the initial slot has been filled, the POSTINITIAL slot may also be filled. The postinitial slot can be filled ONLY by the glides *r* and *y*.⁴ Thus in the syllable *grub* the initial slot is filled by *g* and the postinitial slot by *r*, and in the syllable *byid* the initial slot is filled by *b* and the postinitial slot by *y*.⁵

³ We must be careful, of course, not to confuse these PHONOLOGICAL slots, and the phonemes that can fill them, with the GRAPHIC slots 1 through 4 discussed above. It is true, for example, that the INITIAL—when there is one—is always in the center graph position, and that the PRE-PREINITIAL—when there is one—is always in the left graph position. But after that, as we shall see, identification becomes less easy.

⁴ This statement is controversial, and will require some justification, which will be supplied in the following section.

⁵ An onset cluster of stop plus glide may in some cases be unambiguously processed as an initial stop plus postinitial glide: for example, in *khtag* "blood" or *phyag* "hand" the glide cannot be the initial because the aspirated stops *kh* and *ph* cannot, under the syllable slot-filler constraints, be preinitials; in *skra* "hair" or *dpya* "tax" the glide cannot be the initial because the stops *k* and *p* cannot, under the syllable slot-filler constraints, be preinitials, and because the consonants *s* and *d* cannot, under the syllable slot-filler constraints, be prepreinitials.

However, where the glide is preceded by a single consonant which could be either an initial or a preinitial, such as *g* or *b*, it follows that the glide could in turn be either a postinitial or an initial: for example, the form *gyañ* might—without further information—be processed either as a preinitial *g* followed by initial *y* or as an initial *g* followed by postinitial *y*.

Now the Tibetan writing system distinguishes these two cases with regard to *g* and *y*. An initial *y* is written as a CENTER graph, with preinitial *g* as a LEFT graph; an initial *g* is written as a CENTER graph, with postinitial *y* as a BOTTOM graph. But the writing system does not make similar distinctions with regard to the other glides: when preceded by another consonant, the glides *r*, *l*, and *w* are always written as bottom graphs, and it is easily assumed that they are therefore all postinitials. That is not necessarily the case.

- (3) When the initial slot has been filled, the PREINITIAL slot may also be filled. The preinitial slot can be filled by *r*, *l*, *s*, *g*, *d*, *b*, *m*, and *n*. Thus in the syllable *bde* the initial slot is filled by *d* and the preinitial slot by *b*, and in the syllable *rgyu* the initial slot is filled by *g*, the postinitial slot by *y*, and the preinitial slot by *r*.
- (4) When the preinitial slot has been filled by a NONSTOPPED consonant *r*, *l*, or *s* (note that this is actually a co-occurrence constraint), the PRE-PREINITIAL slot may also be filled. The pre-preinitial slot can be filled ONLY by *b*. Thus in the syllable *bla* the initial slot is filled by *t*, the preinitial slot by *l*, and the pre-preinitial slot by *b*.

The CODA of the syllable consists of two slots. We will call these slots, from left to right, the FINAL and POSTFINAL slots.

- (1) The FINAL slot may be filled with a single vowel (with the additional provisions discussed above), by a single consonant, or left empty—that is, filled by zero. The final slot may be filled by the consonants *d*, *n*,

We will here use the following convention: a preinitial consonant will be separated from a following initial glide by a dot (thus *g.yañ* "blessing"), and an initial consonant followed by a postinitial glide will be left unmarked (thus *gyañ* "baked brick").

Why does this distinction matter? Historical changes occur differently to initials and postinitials—for example, Old Tibetan *gyañ* "blessing" > New Tibetan (Lhasa) *yañ*, but Old Tibetan *GYON* "get dressed" > New Tibetan (Lhasa) *chōñ*, Old Tibetan *gy.u* "turquoise" > New Tibetan (Lhasa) *yu*, but Old Tibetan *gyad* "athlete" > New Tibetan (Lhasa) *che*, Old Tibetan *gy.yon* "left side" > New Tibetan (Lhasa) *yōñ*, but Old Tibetan *gyos-po* "father-in-law" > New Tibetan (Lhasa) *chópo*. Similar examples can be found with other glides—for example, Old Tibetan *grags* "helper" > New Tibetan (Lhasa) *ro*, but Old Tibetan *grags* "fame" > New Tibetan (Lhasa) *tha*. Note also classical Tibetan *BRJ* "write" but *ri-mo* "drawing," *GRIL* "be rolled up" but *ril-po* "round," *GRIB* "grow dim" but *rab-rib* "mist, dimness," and perhaps even *S-BRUM* "make pregnant" < **BRUM* "*be pregnant" but *rum* "womb."

The same distinction may extend back into Proto-Tibetan. We can distinguish, for example, between Proto-Tibetan **s.la* "thin" > Old Tibetan *s.la* > New Tibetan (Lhasa) *la* and Proto-Tibetan **sle* "tongue" > Old Tibetan *lse* > New Tibetan (Lhasa) *se*. Similarly, given Bunyan *goa-gwa*, Chamba Lahuli *gua*, and perhaps even Old Chinese **ghwo* "fox," we can propose Proto-Tibetan **g.wa* "fox" > Old Tibetan *wa* > New Tibetan (Lhasa) *wa*, as opposed, for example, to Proto-Tibetan **rwa* "horn" > Old Tibetan *rwa* > New Tibetan (Lhasa) *ra*.

r, *l*, *s*, *g*, *ñ*, *b*, and *m*, or by any vowel. Thus in the syllable *bod* the final slot is filled by *d*, and in the syllable *grags* the final slot is filled by *g*.

- (2) When the final slot has been filled by a GRAVE consonant (note that this is a co-occurrence constraint), the POSTFINAL slot may be filled as well. The postfinal slot can be filled ONLY by *s*, at least in the classical language.⁶ Thus in the syllable *thabs* the final slot is filled by *b* and the postfinal slot by *s*.

2.1. ARE -*l*- AND -*w*- POSTINITIALS?

When the glide *l* follows a consonant it is written as a bottom graph and alphabetized in native Tibetan dictionaries as if it were a postinitial; but, with only one exception, the bottom graph <*l*> does not represent a postinitial following an initial, represented by the center graph, but rather the initial of the syllable, with the center graph representing the preinitial. There are several reasons for reaching this conclusion.

Historically, the Tibetan preinitial stops have tended to disappear in several New Tibetan dialects⁷—thus, for example, Old Tibetan *gñid* “sleep” > New

⁶ In Proto-Tibetan, when the final slot of a syllable was filled by an ACUTE consonant *n*, *r*, or *l*, the postfinal slot could be filled by *d*. This postfinal *d*—called *da-drag* “strong *d*” by the Tibetan grammarians—was apparently a phonologically conditioned allomorph of postfinal *s*. Postfinal *d* had two sources—an inflectional suffix *-*D* in the present stem of certain verbs, and an inflectional suffix *-*s* in the past stem of all verbs. These suffixes will be discussed in the section on morphology.

⁷ This is a simple statement of a complex phenomenon. First, nothing ever disappears without a trace, which is, I suppose, a comforting thought; in particular, preinitials which have apparently disappeared may be articulated after preceding open syllables in the same stress group—for example, Old Tibetan *bzí* “four” > New Tibetan (Lhasa) *Si* but Old Tibetan *bzú-bzí* “fourteen” > New Tibetan (Lhasa) *tshúpši*, Old Tibetan *gsum* “three” > New Tibetan (Lhasa) *sum* but Old Tibetan *bzú-gsum* “thirteen” > New Tibetan (Lhasa) *tshoksom*, Old Tibetan *mdun* “front part” > New Tibetan (Lhasa) *nün* but Old Tibetan *sku-mdun* “presence” > New Tibetan (Lhasa) *kunün*, Old Tibetan *ndra* “similar” > New Tibetan (Lhasa) *ta* but Old Tibetan *sku-ndra* “statue” > New Tibetan (Lhasa) *kunṭa*, Old Tibetan *mtshan* “sign” > New Tibetan (Lhasa) *tshew* but Old Tibetan *rgyu-mtshan* “reason” > New Tibetan (Lhasa) *cumisek*.

Tibetan (Ladakh) *ñit* (Lhasa) *ñi*, Old Tibetan *dge* "virtue" > New Tibetan (Ladakh) *ge* (Lhasa) *ke*, Old Tibetan *bde* "joy" > New Tibetan (Ladakh) *rde* (Lhasa) *te*, Old Tibetan *dmag-dpon* "army commander" > New Tibetan (Ladakh) *makspon* (Lhasa) *makpön*. Postinitial glides, on the other hand, have tended to affect the place of articulation of the preceding initial—for example, Old Tibetan *sran-ma* "peas" > New Tibetan (Ladakh) *sanma*

Second, two different processes seem to have been at work simultaneously on Tibetan preinitials, sometimes moving the syllable in different directions. On the one hand, the preinitials tend to WEAKEN over time: that is, the degree of closure in articulating the preinitial decreases; stopped preinitials become narrowed, narrowed preinitials become open, and open preinitials disappear—thus, over time, and at different speeds in different parts of the lexicon, stops > fricatives > glides > Ø. We can note this process at work in Old Tibetan *gsum* "three" > New Tibetan (Golog) *γsum* (Panakha) *rsum* (Lhasa) *sum*, Old Tibetan *bdun* "seven" > New Tibetan (Balti) *bdun* (Khams) *vdun* (Purik) *rdun* (Dbus) *diln*, Old Tibetan *bišu* "ten" > New Tibetan (Khams) *rišu* (Purik) *šišu* (Golog) *wišu* (Lhasa) *išu*. Note too such pronunciations as New Tibetan (Dbus) *kurdap* <*sku-gdab*> "fall," *tshuru* <*btšu-dgu*> "nineteen," *derge* <*sde-dge*> "Derge City," and such doublets in the classical texts as *dkan-rkan* "palate," *dgu-rgu* "nine," *gdu-gu-lgu-gu* "bracelet," *BDAR-RDAR* "rub," *sdor-r dor* "spice," *STUÑ-RTUÑ* "make shorter"; even Old Tibetan *sdoñ* New Tibetan (Tao-fu) *stoñ* (Balti) *zdoñ* "tree trunk" was borrowed into Monguor from an unknown Tibetan dialect as *rdoñ*.

On the other hand, the preinitials—particularly nonstopped preinitials—tend to ASSIMILATE to the following initial: that is, over time, and at different speeds in different parts of the lexicon, voiced preinitials tend to become voiceless before voiceless initials, and voiceless preinitials tend to become voiced before voiced initials. We can note this process at work in Old Tibetan *ra* "horse" > New Tibetan (Panakha) *śia* (Ladakh) *śta* (Balti) *šta~sta* (Amdo) *ra~śta*, Old Tibetan *sga* "saddle" > New Tibetan (Golog) *rga* (Balti) *zga* (Purik) *zga* (Amdo) *rga*, Old Tibetan *rkañ* "foot" > New Tibetan (Ladakh) *skañ* (Golog) *śkañ* (Amdo) *xkañ*.

Both of these processes are "natural," in the sense that they are found operating not only in Tibetan but in a variety of other languages. Sometimes the two processes affecting the preinitials—weakening and assimilation—are in conflict. In Panakha, for example, we find that Old Tibetan *sna* "nose" > New Tibetan (Panakha) *ma* both by weakening of the preinitial and by assimilation of the voice onset time of the preinitial to that of the initial. But we find, too, both that Old Tibetan *ra* "horse" > New Tibetan (Panakha) *śia*, where the tendency to assimilate predominates over the tendency for preinitials to weaken, and that Old Tibetan *sku* "body" > New Tibetan (Panakha) *rku*, where the tendency to weaken predominates over the tendency for preinitials to assimilate in voice onset time to initials. In the same way, Old Tibetan *rkañ* "leg" > New Tibetan (Golog) *śkañ* but Old Tibetan *stag* "tiger" > New Tibetan (Golog) *rtag*.

(Lhasa) *tenma*, Old Tibetan *gru* "boat" > New Tibetan (Ladakh) *du* (Lhasa) *thu*, Old Tibetan *nbrug* "dragon" > New Tibetan (Ladakh) *duk* (Lhasa) *tu*, Old Tibetan *rgyab* "back" > New Tibetan (Ladakh) *rgyap* (Lhasa) *cap*, Old Tibetan *phyogs* "side" > New Tibetan (Ladakh) *tshoks* (Lhasa) *tsho*, Old Tibetan *spyan* "eye" > New Tibetan (Ladakh) *stšan* (Lhasa) *tšen*. With one exception, the stop preceding an *l* in an onset cluster behaves historically like a preinitial rather than like an initial—thus Old Tibetan *glu* "song" > New Tibetan (Ladakh) *lu* (Lhasa) *lu*, Old Tibetan *bla-ma* "lama" > New Tibetan (Ladakh) *lama~lama* (Lhasa) *lama*, Old Tibetan *slob-dpon* "teacher" > New Tibetan (Ladakh) *lopdon* (Lhasa) *lopön*, Old Tibetan *rluñ* "air" > New Tibetan (Ladakh) *luñspo* (Lhasa) *luñ*.

There are several synchronic phonological reasons as well. First, preinitial stops cannot be prenasalized, while initial stops followed by a postinitial can be prenasalized—thus, for example, *ndra* but not *?ndga*, *ngyo* but not *?ngdo*, *nbru* but not *?nbde*. In every case, the stop preceding an *l* in an onset cluster behaves like a preinitial with regard to prenasalization—thus *ngrub* but not *?nglub*, *nbyo* but not *?nblo*, *ngye* but not *?ngle*.

Second, initial stops are constrained by the rule of gravity dissimilation in the selection of preinitials but not in the selection of postinitials—thus, for example, we find both *gro* and *dro*, but only *gso* and not *?dso*, and only *dpe* and not *?gpe*. In every case, the *l* in an onset cluster behaves like an initial constrained in its selection of preinitial by the rule of gravity dissimilation—thus *gla* but not *?dla*.

What I call the "auditory imagination" is the feeling for syllable and rhythm, penetrating far below the conscious levels of thought and feeling, invigorating every word; sinking to the most primitive and forgotten, returning to the origin and bringing something back, seeking the beginning and the end.

—T. S. Eliot,
The Use of Poetry & the Use of Criticism

Third, initial stops followed by a postinitial glide can be preceded by a preinitial, and, where that preinitial is not a stop, the preinitial can in turn be preceded by the pre-preinitial *b*, while an initial preceded by a preinitial stop

cannot be further preceded by any additional consonant—thus, for example, *sgra* but not *?sgda*, *dbye* but not *?dbge*, *bsgyur* but not *?bsgdur*. In every case, the stop preceding an *l* in an onset cluster behaves like a preinitial with regard to further preinitials—thus *spyu* and *spra* but not *?splu*, *sgya* and *sgra* but not *?sgla*, *brgya* and *bsgra* but not *?bsgla*.⁸

Fourth, aspirated stops cannot be preinitials but can be initials followed by a postinitial—thus, for example, *khru* but not *?khdu*, *phyā* but not *?phga*. In every case, the *l* in an onset cluster behaves like an initial rather than a postinitial in this regard—thus *khyu* and *khru* but not *?khlu*, *phyā* and *phra* but not *?phla*.⁹

There is, however, one case in which *l* appears to be a postinitial rather than an initial—in the initial cluster *zl*, which in turn behaves historically in surprising ways.¹⁰ First of all, we find such curious classical Tibetan doublets as *zlam~ldum* “round,” *ZLOG~LDOG* “turn away,” *ZLA~NDA* “pass,” *ZLO~NDO* “recite,” *ZLAG~LDAG~NDAG* “lick.” Further, we may note the unexpected New

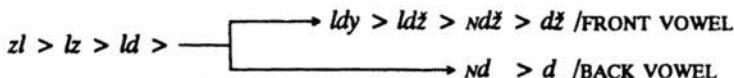
⁸ The initial cluster *bkl-* is found (parallel to *bky-* and *bkr-*) sporadically in the past and future stems of the verb *KLAG* (*klog/klags~bklags/klag~bklag/klog*) “read,” but these seem to be late and analogous forms; there is no corresponding inflectional cluster *bgl-* in such verbs as *GLEB* (*gleb/glebs/gleb*) “flatten” or *GLAN* (*glon/glan/glan*) “mend, patch up.”

⁹ A difficulty for this analysis is raised by the onset cluster *kl-* found in a few common words such as *klu* “serpent deity” and *kloñ* “expanse.” The consonant *k-* (as opposed, for example, to the consonant *g-*) cannot be a preinitial, so it is hard to see how the *l* in the cluster could be the initial. However, the *l* certainly behaves historically like an initial: we find Old Tibetan *klu* “serpent deity” > New Tibetan (Lhasa) *lu*. In fact, in the Sino-Tibetan treaty inscription of 821, Tibetan *klu* is transcribed both as Middle Chinese **kyu-hyap*, representing an initial *kl-* cluster, and as Middle Chinese **lou*, indicating that, as early as the ninth century, in the speech of at least some urban government officials, Proto-Tibetan **klu* had already become Old Tibetan (Lhasa) **lu* <*klu*>. I do not know how to resolve this difficulty.

¹⁰ Note that it is only in *zl-* and not in *sl-* that the *l* appears to be postinitial; the *sl-* cluster behaves just like other clusters with initial *l*—for example, Old Tibetan *stlob-dpon* “teacher” > New Tibetan (Ladakh) *loppon* (Lhasa) *lopón*, Old Tibetan *SLEB* “reach” > New Tibetan (Ladakh) *lep* (Lhasa) *lep*. Note that, under this analysis, *bsla* and *bzla*, although superficially parallel, differ in underlying structure—and thus Old Tibetan *bsla* “will weave” > New Tibetan (Lhasa) *la*, but Old Tibetan *bzlo* “will recite” > New Tibetan (Lhasa) *to*. In *bsla* the *l* is initial, so the *b-* is the pre-preinitial; in *bzlo* the *l* is postinitial, so the *b-* is the preinitial. Both *bsla* and *bzla* are well-formed syllables under the syllable rules.

Tibetan reflexes of the *zl*- cluster—for example, Old Tibetan *zla* “moon” > New Tibetan (Balti) *lza* (Ladakh) *lda* (Chung-tien) *ndo* (Dbus) *da* (Lhasa) *ta*.

One way to account for such phenomena is to hypothesize the following sequence of phonetic changes—(1) *zl* > *lz* by metathesis, (2) *lz* > *ld*, (3) *ld* > *ldy* when followed by a front vowel, (4) *ldy* > *ldž* by palatalization, (5) *ld* > *nd* and *ldž* > *ndž*, (6) in many New Tibetan dialects *nd* > *d* and *ndž* > *dž* through regular loss of preinitials. We can diagram these changes as follows:



This process apparently extends all the way back to Proto-Tibetan. For example, we find the classical Tibetan doublet *ldži-ba*~*ndži-ba* “flea.” On the basis of forms in other Tibeto-Burman languages, such as Nung *səli*, Karen *khałewi*~*khəlai*, Mikir *tšikli*, Lushei *hli*, and Burmese *hle* “flea,” we can hypothesize a Proto-Tibetan **zli* “flea” > Old Tibetan *ldži* > *ndži*, with the intermediate steps **zli* > **lzi* > **ldi* > **ldy* > *ldži* > *ndži*.¹¹

¹¹ This sequence suggests that postinitial *l* is not found in Old Tibetan in clusters other than *zl* because everywhere else an originally postinitial *l* had already metathesized in Proto-Tibetan to preinitial *L*. In other words, at some time before our first written texts, Proto-Tibetan **Ci* > **iC* everywhere but in the cluster *zl*. (Postinitial *r*, as we will see, more sporadically did the same thing—for example, Burmese *mrañ*, Proto-Tibetan **mrañ* > Old Tibetan *rmañ* “horse,” Burmese *krañ*, Proto-Tibetan **krañ* > Old Tibetan *rkañ* “bone.”) This wave of change had not yet reached *zl* by the time the spelling of the cluster was fixed in Old Tibetan; but, as we have hypothesized, the change *zl* > *lz* eventually overtook the cluster *zl* as well. For example, given Karen *lai*, Garo *sre*, Dimasa *salai*, Lepcha *ali*, Burmese *hiya*, Kanauri *le*, Vayu *li*, Lushei *lei* “tongue,” we can hypothesize Proto-Tibetan **sle* > **lse* > **tre* > **tye* > Old Tibetan *ts'e* “tongue,” as an unvoiced parallel to the voiced sequence Proto-Tibetan **zli* > **lzi* > **ldi* > **ldy* > Old Tibetan *ldži* “flea.” Thus, where *l* was initial, no change took place, as in Proto-Tibetan **sla* > Old Tibetan *sla* “thin,” but, where *l* was postinitial, its metathesis triggered a chain of phonetic changes, as in Proto-Tibetan **sle* > Old Tibetan *ts'e* “tongue.” Similarly, given Karen *khyi*, Garo *khi*, Digaro *klai*, Burmese *khye*, Kanauri *khø*, Bahing *khli* “excrement,” Lepcha *takli* “entrails, guts, mucus of entrails,” we can hypothesize Proto-Tibetan **kli* > **lki* > **lkyi* > Old Tibetan *ks'i* “dung.” For some reason, metathesis in this *kl*-cluster appears to have stopped short of spreading throughout the lexicon, and is found only before front vowels; thus all remaining Tibetan *kl*-clusters occur only before back vowels, and, in these few remaining syllables, an apparently postinitial *l* has been reinterpreted phonologically as an initial, as in Old Tibetan *klu* “serpent deity” > New Tibetan (Lhasa) *lu* rather than **lku* > **ku*.

In some instances, Old Tibetan preserves the Proto-Tibetan *z/ unchanged, while various New Tibetan dialects occupy different positions along the hypothesized sequence of historical change. For Old Tibetan *zla* "moon" we can set up Proto-Tibetan *zla on the basis of Nung *səla*, Digaro *həla~hlo*, Vayu *tʃolo*, Burmese *la*, and Bahing *la*. We can hypothesize the sequence Old Tibetan *zla* > New Tibetan *lza* > *lda* > *nda* > *da*, with Balti *lza*, Ladakh *lda*, Chung-tien *ndo*, Dbus *da* reflecting different stages of this change. We may similarly see such classical Tibetan doublets as *zlum~ldum* "round" and *zLA~NDA* "pass" as reflections of the sequence *zlum* > *ldum* and *zla* > **lda* > *nda*, with the older form preserved alongside the newer. Even where the sequence *lda* > *nda* is not attested in the texts, there is evidence for the change in some New Tibetan dialects, where we find, for example, New Tibetan (Lhasa) *tsenšon* <*nbras-ldzoñs*> "Sikkim," *tshənti* <*phyag-lde*> "key," *kunta* <*sku-zla*> "spouse," *chintə* <*khyi-zla*> "dog month."

Another apparent exception to the slot-filler constraint that only the glides *y* and *r* occur postinitially is the occasional appearance in classical Tibetan words—such as *žwa* "hat"—of <*w*> written as a bottom graph, called *wa-zur* "corner *w*" by the Tibetan grammarians. This orthographic convention apparently distinguishes such pairs of words as *ña* "fish" *ñwa* "leg muscle," *rtsa* "root" *rtswa* "grass," *zA* "eat" *zwa* "nettle," *ra* "sheepfold" *rwa* "horn," *la* "mountain pass" *lwa* "woolen blanket," *ša* "flesh" *šwa* "deer," and *TSHA* "be hot" *tshwa* "salt." But, at least after the ninth century, it is difficult to say what phonetic feature—if any at all—is reflected by this orthography.¹² We find occasional classical doublets such as *grwa~gru* "edge" and *rwa~ru* "horn," but with little consistency. Nor does etymology seem to help our inquiry: a semantic relation between *ša* "flesh" and *šwa* "deer" seems apparent; between *ra* "sheepfold" and *rwa* "horn," or *rtsa* "root" and *rtswa* "grass," seems possible; but between *la* "mountain pass" and *lwa* "woolen blanket" seems remote at best.

This apparent postinitial *w* occurs only before the nucleus *a* in classical

¹² In at least some instances the bottom graph <*w*> appears to be a purely graphic convention. In ambiguous graphic sequences which represent syllables with the vowel *a*, where no overt vowel graph marks the center graph, as in <*dgs*> or <*dñs*>, a bottom graph <*w*> will be used to indicate the center graph—for example, *dags* <*dwags*> as opposed to *dgas* or *dañs* <*dwañs*> as opposed to *dñs*.

Tibetan. This skewed distribution—that is, occurrence only before a back spread vowel—can be accounted for historically. First, postinitial *w* does not seem to occur before rounded vowels in any Tibeto-Burman language, and therefore presumably did not occur before rounded vowels in Proto-Tibeto-Burman; thus Tibetan would not have inherited any sequences of the form *-wo* or *-wu*. Second, where postinitial *w* occurs before front vowels in other Tibeto-Burman languages, we find postinitial *y* in Tibetan—for example, Burmese *pwe*, Lushei *bui*, but Old Tibetan *byi* “rat,” Burmese *khwe*, Lushei *ui*, Kanauri *kui*, Chepang *kwi*, Kachin *gui*, Akha *akui*, but Old Tibetan *khyi* “dog,” Burmese *kywe*, Trung *gui*, Chepang *goy*, but Old Tibetan *skyi* “edible root.” Thus we may hypothesize that Proto-Tibetan **bwi* > Old Tibetan *byi* “rat,” Proto-Tibetan **khwi* > Old Tibetan *khyi* “dog,” and Proto-Tibetan **skwi* > Old Tibetan *skyi* “edible root,” or, more generally, Proto-Tibetan *-*w-* > Old Tibetan -*y-* postinitially before a front vowel; thus Old Tibetan would no longer have any inherited sequences of the form *-wi* or *-we*. This would leave postinitial *w* only in syllables with the nonrounded nonfront vowel *a*.

In this position, in the ninth century, <*w*> in the bottom graph position apparently did represent something very much like a postinitial *w*. On the Sino-Tibetan treaty pillar of 821 we find Middle Chinese **kwak* transcribed in Tibetan writing as <*kwag*>, Middle Chinese **kwañ* as <*kwañ*>, Middle Chinese **kuan* as <*kwan*>, Middle Chinese **γwañ* as <*hwañ*>, Middle Chinese **nywɔn* as <*ngwan*>, and Middle Chinese **yweñ* as <*yweñ*>. Other examples are found in ninth-century manuscript transcriptions of Chinese Buddhist texts, where we find Middle Chinese **thuai* transcribed as <*thwa*>, Middle Chinese **cywen* as <*išwan*>, Middle Chinese **ñuai* as <*ngwe*>, and Middle Chinese **žwi* as <*šwi*>.

The *wa-zur* continues to be written in what appears to be onomatopoeia as well. In the epic of Ge-sar we find, for example, *khro-thuñ-gis yar mar bar gsum-la kwi swo hwo gsum byas* “Khro-thuñ said the three syllables *kwi swo hwo* upward, downward, and in between,”¹³ and *khra-phug ñi-ma rañ šar-la, khra-pas kwi kwi zer-sa-nas, khra-mas bswo ðswo zer-sa-nas* “In the Cave of

¹³ The cries would be invocations of the *lha* “gods” above, the *k'u* “serpent deities” below, and the *btsan* “spirits” upon the surface of the earth, respectively.

Hawks the sun rose: the male hawks cry *kwi kwi*, the female hawks cry *bswo bswo . . .*"

However, at some point after the ninth century, the *wa-zur*, in its usual position after the vowel *a*, apparently ceased to reflect any phonetic feature of the syllable, and became a graphic device to distinguish certain homophones. This certainly seems to be the situation throughout New Tibetan. For example, we find New Tibetan (Lhasa) *śa <ža>* "moisture" *śa <žwa>* "hat," *tsa <rtsa>* "root" *tsa <rtswa>* "grass," *ra <ra>* "sheepfold" *ra <rwa>* "horn," *sa <za>* "eat" *sa <zwa>* "nettle," *tsha <tsha>* "be hot" *tsha <tshwa>* "salt," *ṭha <gra>* "preparation" *ṭha <grwa>* "corner." Note also the alternative spellings of the same word *śaci <śa-khyi~śwa-khyi>* "hunting dog" and *thañka <dañ-ka~dwañ-ka>* "appetite."

It is by their syllables that words juxtapose in beauty, by these particles of sounds as clearly as by the sense of the words which they compose. . . . The fineness, and the practice, lie here, at the minimum and source of speech. . . . I say the syllable, king, and that it is spontaneous, this way: the ear, the ear which has collected, which has listened, the ear, which is so close to the mind that it is the mind's, that it has the mind's speed . . .

—Charles Olson,
Projective Verse

3. CO-OCCURRENCE CONSTRAINTS

3.i. CONSTRAINTS ON POSTINITIALS

3.1.1 Postinitial -y-

Postinitial *y* is found in Old Tibetan only in the clusters *gy*, *ky*, *khy*, *by*, *py*, *phy*, and *my*. This distribution can be accounted for fairly simply by the following hypothesis about Proto-Tibetan. Let us assume that the consonant inventory of Proto-Tibetan consisted just of velar, dental, and labial stops and

fricatives—that is, *g, k, kh, ŋ, d, t, th, n, s, z, b, p, ph, m—and, perhaps, the affricate clusters *dz, ts, tsh. Let us assume that every one of these consonants could be palatalized by postinitial y. And let us assume that, when such palatalization occurred, the following changes eventually took place—*ny > ŋ, *dy > dž, *ty > tš, *thy > tsh, *ny > ŋ, *sy > ſ, *zy > ž, *dzy > dž, *tsy > tš, *tshy > tsh. These changes are natural ones, and the hypothesis would account for two things—the fact that Old Tibetan has palatal affricates and fricatives; and the fact that, in Old Tibetan, the consonants that had undergone this change in Proto-Tibetan are precisely the ones that now can no longer be palatalized.¹⁴

There is some evidence to support this hypothesis. For example, we find Burmese *si*, Vayu *ses*, Phunoi *sə*, Akha *si*, Mpi *sə*, Garo *masi* “know,” and we can hypothesize a Proto-Tibetan *ses > *sys > Old Tibetan ſES “know.” Similarly, we find Burmese *sa*, Phunoi *sa*, Bisu *tañsa*, Mpi *tareso*, as well as

¹⁴ The hypothesized changes are “natural” ones in two senses. First, a change from a palatalized dental to a palatal affricate or fricative is not uncommonly found in a variety of languages. Second, the hypothesized change seems to have continued into modern times, spreading from the dentals and velar nasals into the velars and labials—for example, Old Tibetan *brgya* “hundred” > New Tibetan (Golok) *džya* (Dbus) *dža* (Lhasa) *ca*, Old Tibetan *rγyal-po* “king” > New Tibetan (Amdo) *džyau* (Dbus) *džepo* (Lhasa) *cepo*, Old Tibetan *khyi* “dog” > New Tibetan (Amdo) *tša* (Dbus) *tšhi* (Lhasa) *chi*, Old Tibetan *khyod* “you” > New Tibetan (Amdo) *tšo* (Golok) *tšyo* (Dbus) *tšö* (Lhasa) *chö*, Old Tibetan *bya* “bird” > New Tibetan (Amdo) *ʃa* (Golok) *ʃya* (Dbus) *ʃa* (Lhasa) *tša*, Old Tibetan *phyogs* “side” > (Amdo) *ʃog* (Liao) *pʃo* (Dbus) *tšho* (Lhasa) *tšho*, Old Tibetan *phyug-po* “rich” > New Tibetan (Derge) *ʃukpa* (Liao) *pʃopa* (Dbus) *tšukpo* (Lhasa) *tšukpu*. Of course, this development of palatal consonants—stops (c, ch), fricatives (ʃ, fʃ), and affricates (pʃ, tʃ, tʃh)—does not occur in the same way in each dialect, or, indeed, in every word in each dialect. For example, in Amdo we find Old Tibetan *khyi* “dog” > New Tibetan (Amdo) *tšha* but Old Tibetan *khyim* “house” > New Tibetan (Amdo) *khyim*, Old Tibetan *rγyal-po* “king” > New Tibetan (Amdo) *džyau* but Old Tibetan *brgya* “hundred” > New Tibetan (Amdo) *rγya*. In Ladakh, palatalized labials have, generally, become palatal affricates, but palatalized velars have not; we find Old Tibetan *phyogs* “side” > New Tibetan (Ladakh) *tšhoks* but Old Tibetan *khyim* “house” > New Tibetan (Ladakh) *khyim*, Old Tibetan *spyod* “action” > New Tibetan (Ladakh) *tšor* but Old Tibetan *skyems* “libation” > New Tibetan (Ladakh) *skyems*, Old Tibetan *byañ* “north” > New Tibetan (Ladakh) *tšañ* but Old Tibetan *rγyan* “ornament” > New Tibetan (Ladakh) *rγyan*—yet compare Old Tibetan *shyin* “gift” > New Tibetan (Ladakh) *tšin* with Old Tibetan *phyi* “outside” > New Tibetan (Ladakh) *phi*. Despite all this, the tendency remains clear, and palatalization has continued to spread both phonologically and, apparently, lexically.

Bahing *sye*, Sangpang *sya*, Kanauri *śya*, Magari *miśia*, Nung *śa*, Lushei *śa* "meat," and we can hypothesize a Proto-Tibetan **sya* > Old Tibetan *śa* "meat." Similar hypotheses can be made for some nasals—for example, Burmese *ñā*, Lisu *ñwa*, Akha *ñā*, Mpi *ñō*, Lepcha *ñō*, Tsangla *ñā*, Kachin *ñā*, Lushei *hñā*, Bodo *ñā~na*, Chepang *ñā~ñā* "fish," and thus Proto-Tibetan **ñya* > Old Tibetan *ñā* "fish," and Burmese *hñā*, Lisu *ñwa*, Akha *ñā*, Nung *ñā* "borrow," and thus Proto-Tibetan **ñya* > **r-ñya* > **b-ñya* > Old Tibetan *BRÑA* "borrow."

Similarly, given Burmese *tshi*, Nung *tsi*, Kachin *džit*, Dimasa *si-di* (*di* "water"), Lahu *dži* "urine," we can hypothesize Proto-Tibetan **tsi* > **g-tsi* > **gtsyi* > Old Tibetan *GTŚI* "urinate"; given Burmese *tshit*, Lisu *tshi*, Akha *tsui* "pinch," we can perhaps hypothesize Proto-Tibetan **tshir* > **tshyir* > Old Tibetan *TŚHIR* "squeeze"; given Burmese *swan* "pour out," Garo *sol-añ*, Dimasa *di-sor* (*di* "water"), Kachin *son* "flow," Lepcha *tshor* "the pouring of water," we can hypothesize Proto-Tibetan **tsyuar* > Old Tibetan *TŚOR* "overflow."

There are also a few examples that allow us to hypothesize Proto-Tibetan palatalized dental stops. We find Dwags *thi*, Gurung *ti-*, Zhang-zhung *tig*, Rgyarong *kətiag*, Chingtang *thit*, Rai *thik-pu*, Nung *thi*, Burmese *tats* "one," and thus Proto-Tibetan **gtig* > **gtyig* > Old Tibetan *gtśig* "one"; we find Dwags *then-bo*, Gurung *then-ba*, Rgyarong *-kthi*, Kukish *dei*, Kanauri *te*, Miju *-tai*, Nung *the*, Mikir *the* "big," and thus Proto-Tibetan **the* > **thye* > Old Tibetan *TŚHE* "be big."

There is, moreover, some indirect evidence for the hypothesis, which is, I think, in some ways more persuasive than the comparative evidence just outlined. In the classical lexicon we can find pairs of words with related—and occasionally identical—meanings which differ only in that one of the pair has an apparently palatalized initial and the other does not—for example, *SKOR* "surround, encircle, enclose, ride round" and *SKYOR* "repeat, recite by heart," *GON* "put on, wear" and *GYON* "put on, wear," *NPHO* "change place, shift, migrate" and *NPHYO* "range, roam about, gambol," *BO* "pour out, spill over" and *BYO* "pour out, pour into another vessel," and perhaps even *SPO* "remove from office, dismiss from employment" and *SPYO* "blame, scold."¹⁵

¹⁵ Note also *NKHOR* "turn round, go about in a circle" and *NKHYOR* "reel, stagger, miss the target" and, perhaps, *NKHYAR* "err, deviate, go astray," *GAB* "cover, protect" and *SKYAB*

Whatever the semantic function of this palatalization—and that is certainly far from clear—we find the same pattern in alternating dental and palatal initials: thus, for example, where we find *sul* “furrow, channel, groove” and *šul* “track, rut, furrow,” parallel to *NPHO* “change place, migrate” and *NPHYO* “range, roam about,” we can similarly hypothesize *šul* < Proto-Tibetan **syul*. Note the following pairs as well—*SAL* “remove, clear away, cleanse” and *BŠAL* < **bsyal* “rinse, wash off, cleanse,” *zabs* “depth” and *žabs* < **zyabs* “bottom, lower end, foot,” *GZIGS* “see, look at, regard” and *GŽIG* < **gzyig* “examine, search, try,” *DZUGS* “stick into, pierce, insert, plant, set” and *DŽUG* < **dzyug* “inject, put into,” *THUÑ* “be short” and *TŠHUÑ* < **thyuñ* “be small,” *thun* “gatherer” and *tšun-po* < **thyun-po* “bunch, bundle,” *THAG* “grind, pulverize, mash” and *TŠHAG* < **thyag* “become broken, be broken off,” *NTHAM* “grasp, embrace, join,” and *NTŠHAM* < **nthyam* “accord, agree,” *gter* “treasure” and *BTŠER* < **btyer* “heap up, pile up,” *LDAG* “lick” and *ldžags* < **ldyags* “tongue,” *GDUÑS* “desire, long for, feel pain” and *ndžuñs-pa* < **ndyuñs* “avarice,” *MNAL* “sleep” and *ÑAL* < **nyal* “sleep,” *sne* “end, extremity” and *sñe* < **snye* “spike of wheat,” *nar* “oblong” and *ñar* < **nyar* “oblong.”

3.1.2. Postinitial -r-

The distribution of postinitial *r* is more complex than that of postinitial *y*. Postinitial *r* is found only in the clusters *kr*, *khr*, *gr*, *dr*, *pr*, *phr*, *br*, and *sr*. In

“protect, defend, save,” *dben* “solitude, loneliness, separation” and *dbyen* “difference, schism, discord,” *rkañ-pa* “foot” and *RKYAÑ* “stretch forth, extend, stick out.”

In several of these pairs we find an alternation between a vowel *a* in the unpalatalized form and the vowel *e* in the palatalized form—for example, *SKAM* “be dry” and *SKYEM* “be thirsty,” *-mkhan* “PERSON SKILLED IN” and *MKHYEN* “know,” *GA* “split, cleave, divide” and *GYE* “divide, scatter, disperse,” *GAL* “load, lay on a burden, put on” and *SGYEL* “put down, throw down, overturn” and *GYEL* “fall, stumble,” *DGA* “rejoice” and *DGYES* “rejoice.” It is possible, of course, that in these cases the palatalization is secondary to the front vowel, and the vowel alternation is the primary process; it would be parsimonious, on the other hand, to claim that the front vowel is secondary to the palatalization, especially before a front final consonant. In either case, the process was not regular: under the first hypothesis we would expect to find **muñhe* instead of the actual *mhe* “thumb”; under the second hypothesis we would expect to find **SKYEB* instead of the actual *SKYAB* “protect.” In either case, the nature of the derivational process is not clear, and the process itself apparently no longer productive by the time of Old Tibetan.

general, postinitial *r* does not occur after nasals, and has all but disappeared after fricatives.¹⁶

Actually, postinitial *r* is in fact found after the nasals *n* and *m*, but very infrequently. It is found after *n* only in the cluster *snr* and in only three words of extremely rare occurrence and specialized use. The cluster *snr* occurs in the astronomical terms *snron* and *snrubs*, which are translation of the Sanskrit names of two—*jyeṣṭhā* and *mūla*—of the 28 *nakṣatra* “lunar mansions” of Vedic astronomy, and which are not commonly found even in Tibetan astronomical texts; and in the word *snrel-gži* “topsy-turvy,” a translation of Sanskrit *vyat�asta*, the name of one of the subcontinents in Indian Buddhist speculative geography. Postinitial *r* is found after *m* only in the cluster *smr* in just a single but common word *SMRA* “speak” and its derivatives, and even there it is quite

¹⁶ Postinitial *r* is also found in Old Tibetan in the cluster *tr* in a few loanwords—for example, *tri-šu* “trident” < Sanskrit *triśūla*—and in a small number of words, such as *trampa* “tough” and *tron* “diligence,” of uncertain provenance. See also the onomatopoeic *thrig-thrig* “SQUEAKING OF SHOES.”

There is reason to believe that, in a few cases, postinitial *r* after stop initials had metathesized to preinitial position before the time of Old Tibetan. As in many languages—for example, English *wasp* < Old English *wæsp~wæps* < Indo-European **wobhes~wops*—this metathesis was sporadic and lexeme-specific. For example, where we find Burmese *mrañ*, Rgyarong *bro~mbro*, Kachin *kumrañ*, Mpi *myuñ* “horse,” we can hypothesize Proto-Tibetan **mrañ* > Old Tibetan *rmañ* “horse” by metathesis; similarly, given Burmese *khrañ*, Mikir *arkleñ*, Lushei *thliñ* “marrow,” we can hypothesize Proto-Tibetan **krañ* > Old Tibetan *rkañ* “marrow,” and, given Burmese *hrats*, Lushei *riat* “eight,” we can hypothesize Proto-Tibetan **bgyad* > Old Tibetan *bryad* “eight.” In fact, this metathesis appears to have occurred in every such preinitial *ry* cluster in Proto-Tibetan: we find Burmese *krui*, Lushei *hrui* “string,” and thus Proto-Tibetan **gryud* > Old Tibetan *rgyud* “string”; and, using Lepcha materials, Lepcha *krop* and thus Proto-Tibetan **gryab* > Old Tibetan *RGYAB* “throw,” as well as Lepcha *gya* and thus Proto-Tibetan **kria* > **rkia* > Old Tibetan *rke* “thin,” Lepcha *kryok* and thus Proto-Tibetan **kro* > Old Tibetan *rko* “hoe,” and perhaps even Lepcha *kryoñ* “praise” and thus Proto-Tibetan **gryañ* > Old Tibetan *RGYAN* “stretch, extend.”

In the classical lexicon too there are several word pairs suggesting that such metathesis has taken place—*RGA* “be old” *BGRE* < **b-gria* “grow old,” *rdum-po* “maimed” *GRUM* “cut off, lop off,” *RGAL* “pass over, cross, ford” *SGRAL* “carry across, transport.” In at least one text I have found this last pair used in what appears to be word play: instead of the usual formulation of the bodhisattva vow, in Chapter 29 of the Tibetan translation of the *Karmañataka* we find *bdag rgal-nas gžan sgrol-tšig* “May I, having crossed over, carry others across!”

unstable: it shifts to syllable final position, in *smaR* "speak"; it metathesizes to preinitial position, in the doublet *smre-sñags~rmo-sñags* "wailing, lamentation"; and, historically, Old Tibetan *SMRA* "speak" > New Tibetan (Ladakh) *sma* (Khams) *śna* (Dbus) *ma* (Lhasa) *ma*. In this word it may be that we have a single frozen remnant of an otherwise general change of Proto-Tibetan **mr* > Old Tibetan *br*—for example, Kanauri *mra*, Burmese *mya* "much, many," and thus Proto-Tibetan **mra* > Old Tibetan *BR* "be much"; Burmese *myui* "seed," Kachin *myu~amyu* "kind, sort, tribe," and thus Proto-Tibetan **mru* > Old Tibetan *nbru* "grain, seed."¹⁷

There is also evidence that, at one time, postinitial *r* occurred after *s* as well as after *s*, but that, by the time of Old Tibetan, the cluster **śr* had simplified to *s* in every instance—for example, Bunan *śrig*, Kanauri *rič*, Nung *si*, Lisu *hrgh* "louse," and thus Proto-Tibetan **śrig* > Old Tibetan *śig* "louse"; Bunan *śrag*, Nung *sara*, Burmese *hrak*, Mikir *therak* "shame," and thus Proto-Tibetan **śrag* > Old Tibetan *śAG* "confess." The cluster **sr*, on the other hand, did not similarly begin to change until after the time of Old Tibetan: we find Miri *siram*, Kachin *śaram*, Nung *saram*, Mikir *serim* "otter," and thus Proto-Tibetan **sram* > Old Tibetan *sram* "otter"; Bunan *śriñ*, Manchati *ḥriñ*, Chamba Lahuli *hriv*, Dhimal *rima*, Kanauri *riñz* "sister," and thus Proto-Tibetan **sriñ* > Old Tibetan *srīñ-mo* "sister."¹⁸

¹⁷ Apparently the metathesis **mr* > *rn* exempted Proto-Tibetan **mrañ* > Old Tibetan *rmañ* "horse" from this change.

¹⁸ The written form <*sriñ*> appears in a remarkable ninth-century manuscript from an officer in a garrison in Khotan, containing the earliest occurrence I have seen of a well-known epithet—*nañ-rdže-po bstan-to-re ma-rgyon smyon-ba, sriñ-rgyon rgun-ma myi-zad-pa* "Interior Minister Bstan-to-re is a crazy motherfucker, a sisterfucker, an insatiable drunk." After further comments on the minister's qualifications, the writer recommends his transfer to Śiñ-ṣañ, apparently a less desirable post.

When the Old Tibetan cluster *sr* did begin to change—while, of course, the written form <*sr*> continued unchanged—it changed in two fundamentally different ways. First, the cluster *sr* developed in several dialects into a single fricative. In central Tibet, for example, we find that *sr* > *s*, parallel to the earlier **śr* > *ś*—thus Old Tibetan *sras* "son" > New Tibetan (Dbus) *se*, Old Tibetan *srog* "life" > New Tibetan (Dbus) *sok*, Old Tibetan *srol* "tradition" > New Tibetan (Dbus) *sö*. In Ladakh we consistently find that *sr* > *f*—thus Old Tibetan *srog* "life" > New Tibetan (Ladakh) *ſok*, Old Tibetan *srol* "tradition" > New Tibetan (Ladakh) *ſol*, Old Tibetan *sran-ma* "peas" > New Tibetan (Ladakh) *ſanma*. And

3.2. CONSTRAINTS ON PREINITIALS

There are, in Old Tibetan, constraints which limit the co-occurrence of preinitials and initials: we find, for example, *nph* but not **mph*, *gt* but not **gp*, *bis* but not **bish*. The most general constraints on the co-occurrence of preinitials and initials can be summarized in the following chart:

		STOPPED			FRICATIVE
		ORAL		NASAL	
		VOICED	UNVOICED	ASPIRATED	
NONSTOPPED		+	+	-	+
STOPPED	ORAL	+	+	-	+
	NASAL	+	-	+	-

in Amdo we find, with some exceptions, that *sr* > *ʃr* > *ʒ*—thus Old Tibetan *srab* “bridle” > New Tibetan (Amdo) *ʃrap*, Old Tibetan *snuñ* “protection” > New Tibetan (Amdo) *ʒuñ*, Old Tibetan *sran-ma* “peas” > New Tibetan (Amdo) *ʃenma*.

Second, and perhaps more interesting, in several dialects the cluster *sr* developed an epenthetic *t*, and thus, in these dialects, *sr* > *str*—for example, Old Tibetan *striñ-mo* “sister” > New Tibetan (Purik) *striñmo* (Balti) *striñmo* (Khams) *striñmo*, Old Tibetan *sran-ma* “peas” > New Tibetan (Khams) *stranma*, Old Tibetan *srab* “bridle” > New Tibetan (Purik) *strap* (Balti) *strab*.

As we have seen before, however, Tibetan dialectology does not often yield neat solutions. In Lhasa City, for example, some words, as spoken by some speakers, show the same change *sr* > *s* as found in Dbus—thus Old Tibetan *sras* “son” > New Tibetan (Lhasa) *se*, Old Tibetan *srol* “tradition” > New Tibetan (Lhasa) *sö*, Old Tibetan *srid* “dominion” > New Tibetan (Lhasa) *si*. Some words show a consistent initial *t*, presumably from the regular change *sr* > **str* > *t*—thus Old Tibetan *sran-ma* “peas” > New Tibetan (Lhasa) **stranma* > *tema*. And some words show an alternation—by speaker? by social class? by formality of speech situation?—between initial *s* and initial *t*—thus Old Tibetan *srab* “bridle” > New Tibetan (Lhasa) *səp-ʃəp* < **strab*, Old Tibetan *sram* “otter” > New Tibetan (Lhasa) *sam-ʃam* < **stram*, Old Tibetan *sras-mo* “daughter” > New Tibetan (Lhasa) *semə-ʃemo* < **stras-mo*, Old Tibetan *SRO* “make warm” > New Tibetan (Lhasa) *so-ʃo* < **stro*.

Thus, as a general rule, the nonstopped preinitials *r-*, *l-*, and *s-* are found before stopped initials of all classes except aspirated stops; but within those larger classes there are further constraints on the nonstopped preinitials which are idiosyncratic and apparently not governed by general rule: we find *rk* and *rt* but not **rp*, *rts* and *sts* but not **lts*, *rdz* and *rts* but not **rls*, *sts* but not **stf*, and so on. The following table summarizes these gaps in the application of the general rule:

VOICELESS				VOICED						NASAL			
K	T	P	TS	TS	G	D	B	DZ	DZ	N	N	N	M
rk	r	—	—	rts	rg	rd	rb	rdz	rdz	rñ	rñ	m	rm
lk	l	lp	lts	—	lg	ld	lb	ldz	—	lñ	—	—	—
sk	st	sp	—	sts	sg	sd	sb	--	--	sñ	sñ	sn	sm

Table 7. Distribution of the nonstopped preinitials *r-*, *l-*, and *s-*

Similarly, as a general rule, the non-nasal stopped preinitials *b-* and *G-* occur before initials of all classes except aspirated stops; but their co-occurrence with particular initials within those classes is governed by further rules. The following table summarizes these co-occurrence constraints:

VOICELESS				VOICED				FRICATIVE				NASAL					
K	TS	T	TS	P	G	DZ	D	DZ	B	S	Z	S	Z	N	N	N	M
1	gts	gr	gts	1	1	2	gd	2	1	g̪	g̪	gs	gz	1	gñ	gn	1
dk	1	1	1	dp	dg	2	1	2	db	1	1	1	1	dñ	1	1	dm
bk	bt̪	br	bts	3	bg	2	bd	2	3	b̪	b̪	bs	bz	4	4	4	4

Table 8. Distribution of the oral stopped preinitials *b-* and *G-*

The numbers in the unfilled spaces on Table 8 indicate the following rules governing the exceptions to the general distribution of *b-* and *G-* preinitials:

- 1 Preinitial *G-* undergoes GRAVITY DISSIMILATION to become *g-* before acute initials and *d-* before grave initials.

2 Preinitial *b-* and *c-* do not occur, for reasons I do not know, before the voiced affricate initials *dž* and *dz*.

3 Two labial consonants do not occur together in the same onset cluster.

4 Preinitial *b-* does not occur before nasal initials.

Similarly, as a general rule, the nasal preinitials *m-* and *N-* occur before aspirated, voiced, and nasal initials; but, again, their co-occurrence with particular initials within those classes is governed by further rules. This distribution is summarized in Table 9:

ASPIRATED						VOICED						NASAL		
<i>tsh</i>	<i>tsh</i>	<i>th</i>	<i>tsh</i>	<i>ph</i>	<i>g</i>	<i>dž</i>	<i>d</i>	<i>dz</i>	<i>b</i>	<i>n̄</i>	<i>n̄</i>	<i>n</i>	<i>m</i>	
<i>mkh</i>	<i>mh</i>	<i>mh</i>	<i>msh</i>	3	<i>mg</i>	<i>mdž</i>	<i>md</i>	<i>mdz</i>	3	<i>mñ</i>	<i>mñ</i>	<i>mn</i>	3	
<i>ndh</i>	<i>ndh</i>	<i>ndh</i>	<i>nsh</i>	<i>nph</i>	<i>ng</i>	<i>ndž</i>	<i>nd</i>	<i>dz</i>	<i>nb</i>	5	5	5	5	

Table 9. Distribution of the nasal preinitials *m-* and *N-*

Again, the numbers in the unfilled spaces on this chart indicate the rules governing the exceptions to the general distribution of *m-* and *N-* preinitials. Rule 3 is as given above; and, in addition,

5 Nasals cannot be prenasalized.

3.3. STACKING CONSTRAINTS

Finally, there are two constraints on the co-occurrence of preinitials and postinitials—the graphic “stack” of top, center, and bottom graphs. First, *r* does not occur as both pre- and postinitial in the same syllable onset: thus we find, for example, the onsets *rky* and *skr* but not *?rkr*. Second, the preinitial *l* does not co-occur with any postinitial: thus we find, for example, *lk* but not *?lky* or *?lkr*.¹⁹

¹⁹ As near as I can figure, not counting the problematic syllables with *wa-zur*, there are

4. DISYLLABIC STRESS GROUPS

A striking feature in the development of Tibetan has been an increasing tendency toward DISYLLABISM in word formation: there has developed considerable analogic pressure in the language for words—and even common collocations of words—to constitute a single DISYLLABIC STRESS GROUP, usually with the primary stress on the first syllable. One result of this tendency was that NONSYLLABIC FORMATIVES seem early to have become less productive than SYLLABIC FORMATIVES, and what we here call OUTER DERIVATION replaced INNER DERIVATION as a means of creating new words. We thus find cases in the classical language of two words with the same meaning derived from the same source, but one by inner and one by outer derivation—for example, from *za* “eat” both the older monosyllabic *zas* “food” and the later disyllabic *za-ma* “food,” or from *na* “be ill” both the older monosyllabic *nad* “illness” and the later disyllabic *na-ba* “illness.”²⁰

There are several ways in which new disyllabic stress groups can come to be formed. A syllabic formative added to an existing monosyllabic word will yield a disyllabic stress group—for example, *mda* “arrow” *mda-pa* “archer,” *RGYAL* “be victorious” *rgyal-po* “king,” *lha* “god” *lha-mo* “goddess.” Sometimes such syllabic formatives as these appear in Old Tibetan to have been added to an existing monosyllabic word with no semantic effect at all—that is, without

thus 209 possible syllable onsets in the classical language, including the smooth vocalic ingress or absence of consonant onset; five possible syllable nuclei; and 14 possible syllable codas, counting all open syllables as one. There are thus 14,630 possible syllables in the classical language, only some of which are actually paired with meanings. We can thus distinguish between syllables such as *bsyur* and *murg*, which are not even potentially Tibetan words, and syllables such as *ngib* or *dpyogs*, which are potentially Tibetan words, but which—fortuitously—have not been lexicalized as part of the language.

²⁰ There are, in addition, several sources of TRISYLLABISM in the classical texts. Much onomatopoeia in Tibetan poetry is trisyllabic—for example, *kyu-ru-ru* “CALLING OF BIRDS,” *kho-ro-ro* “BUZZING OF BEES,” *gya-ma-gyu* “RUSHING OF A RIVER,” *šuñ-se-šuñ* “MOTION OF A MOVING HORSE.” There are also a few disyllabic formatives which yield trisyllables—for example, *-Pho-išhe* “BIG KIND OF,” as in *me* “fire” *me-bo-išhe* “conflagration,” or *-E-Pa* “ADJECTIVE,” as in *GUG* “bend” *gug-ge-ba* “bent.” And trisyllables are produced when monosyllabic formatives are added to existing disyllables—for example, *gišer-bu* “naked” *gišer-bu-pa* “naked ascetic,” *dge-sloñ* “monk” *dge-sloñ-ma* “nun.”

changing meaning—but apparently only to form a disyllabic stress group.²¹

Similarly, a disyllabic stress group may be formed by the juxtaposition of two monosyllabic words. Sometimes this juxtaposition creates a COMPOUND, which is a new stress group with a new meaning—for example, *glañ* “speech” *dpe* “pattern, model” *glañ-dpe* “proverb,” *mgo* “head” *SKOR* “encircle” *mgo-SKOR* “deceive,” *sañs* < Ø-*TSAÑ-s* “awakened” *rgyas* < Ø-*RGYA-s* “expanded” *sañs-rgyas* “Buddha.” But, again, sometimes such a juxtaposition is simply a combination of two synonymous monosyllables to form disyllable with no discernible change of meaning—for example, *dri* “scent” *bsuñ* “scent” *dri-bsuñ* “scent,” *sugs* “strength” *stobs* “strength” *sugs-stobs* “strength,” *sgra* “sound, voice” *skad* “sound, voice” *sgra-skad* “sound, voice.”

Finally, a disyllabic stress group may be formed by the reduction of polysyllabic words and collocations of words to disyllabic stress groups by the omission of unstressed syllables. Once again, this reduction may produce a compound, a disyllabic stress group sufficiently different from the sum of its components to be a new word—for example, *glañ* “ox” *tshen-po* “big” *glañ-tshen* “elephant,” *skye-ha* “birth” *dman-po* “low” *skye-dman* “woman,” *riñ-po* “long” *thuñ-ha* “short” *riñ-thuñ* “length.” Or the reduction may produce a

²¹ For example, we find Burmese *wak*, Lushei *vok*, Mpi *wa*, Phunoi *voa*, Newari *phe*, Kachin *wa?*, Mikir *phak*, and thus Proto-Tibetan **phag* > Old Tibetan *phag-pa* “pig”; Burmese *la* Nung *sala*, Bahing *la*, Phunoi *sala*, Bisu *la*, Digaro *hala*, and thus Proto-Tibetan **zla* > Old Tibetan *zla-ba* “moon”; Burmese *ne*, Lushei *ni*, Kachin *ni*, Kanauri *ni*, Newari *ni*, Garo *ni*, Karen *ni*, Nung *ni*, and thus Proto-Tibetan **ni* > **nyi* > **ñi* > Old Tibetan *ñi-ma* “sun”; Burmese *nu*, Lushei *nu*, Lolo *no*, and thus Proto-Tibetan **nu* > Old Tibetan *nu-ma* “breast”; Burmese *aphu*, Kachin *phu*, Garo *bu*, Mikir *phu*, Lushei *pu*, and thus Proto-Tibetan **phu* > Old Tibetan *phu-bo* “older brother”; Burmese *asan*, Lushei *tin*, Gurung *siv*, Siyin *tiñ*, Dhimal *siñ*, Miju *nisen*, and thus Proto-Tibetan **sen* > Old Tibetan *sen-mo* “fingernail.” It is characteristic of such affixes that they are easily dropped in compounds or for other primarily rhythmic reasons—for example, *zla-ba* “moon” but *ñi-zla* “sun and moon” and *zla-od* “moonlight,” *sen-mo* “fingernail” but *zabs-sen* “toenail” and *sen-žo* “white spot on the fingernail.” As might be expected, the greater the semantic load carried by such an affix, the less easily is it so discarded.

Of course, such suffixes are not necessarily pleonastic even where their function is obscure: note, for example, *rkañ* “marrow” but *rkañ-pa* “foot,” *spun* “sibling” but *spun-pa* “chaff,” *gru* “boat” but *gru-mo* “elbow,” *grog-po* “ravine” but *grog-mo* “ant,” *rdog-pa* “step” but *rdog-po* “grain,” *od* “light” but *od-ma* “bamboo” and *od-pa* “blood.”

disyllabic stress group with no apparent change of meaning from its polysyllabic source—for example, *stoñ-pa* “empty” -*nid* “-NESS” *stoñ-nid* “emptiness,” *pad-ma* “lotus” *dkar-po* “white” *pad-dkar* “white lotus,” *byañ-tshub* “enlightenment” *sems* “thought” *byañ-sems* “thought of enlightenment.” Such reductions we will call CLIPS.

4.1. CLIPS

CLIPS are frequently encountered in Tibetan. Some clips operate within the boundaries of a single word: thus *stoñ-nid* < *stoñ-pa-nid* “emptiness” is a WORD CLIP. Some clips operate across word boundaries, but still within a single nominal: thus *pan-tshen* < *pandita tshen-po* “great scholar” is a NOMINAL CLIP. And some clips operate across a nominal phrase boundary but still within a larger nominal or verbal phrase: thus *byañ-sems* < *byañ-tshub-kyi sems* “thought of enlightenment” is a PHRASE CLIP. What all Tibetan clips have in common is that they do not change meaning: a clipped word or phrase has the same meaning as the word or phrase from which it is derived.

4.1.1. Word clips

WORD CLIPS operate within the boundary of a single word.²² Here we find both polysyllabic words reduced to disyllables and disyllabic words reduced to monosyllables for incorporation into further clips. Thus we find such disyllabic word clips as *tiñ-ndzin* < *tiñ-ñe-ndzin* “contemplation,” *stoñ-nid* < *stoñ-pa-nid* “emptiness,” *byañ-sems* < *byañ-tshub sems-dpa* “bodhisattva,” *legs-bśad* < *legs-par bśad-pa* “aphorism,” *rab-gnas* < *rab-tu gnas-pa* “consecration,” *bde-gṣegs* < *bde-bar gṣegs-pa* “Well-gone One,” *tshigs-hiśad* < *tshigs-su hiśad-pa* “poetry,” *mayañ-ndas* < *maya-ñan-las ndas-pa* “nirvana,” *sñiñ-ñe* < *sñiñ-dañ ñe-ba* “friend.”

Where a disyllabic word has been reduced to a monosyllable we often find not only the elimination of the unstressed syllable but also incorporation of

²² As we will discuss later, a word is, more or less, a semantically exocentric unit whether simple or compound. Thus *rta* “horse” is a word; so is *maya-ñan-las ndas-pa* “passing beyond sorrow → nirvana.”

some of its phonetic material into the stressed syllable. Such monosyllabic word clips—or CONTRACTIONS—include *yig* < *yi-ge* “writing,” *tshog* < *tsho-ga* “ritual,” *myañ* < *mya-ñan* “suffering,” *rdor* < *rdo-rdže* “vajra,” *šer* < *šes-rab* “wisdom,” *rag* < *ra-gan* “brass,” *bun* < *bu-lon* “cash advance,” *tshol* < *tsho-lo* “dice.” Such contractions are often then found as members of disyllabic stress groups—for example, *ra-gan* “brass” but *rag-bum* “brass vessel,” *tsho-lo* “dice” but *šin-tshol* “wooden dice,” *bu-ram* “sugar” but *bur-ltañ* “bale of sugar,” *bu-lon* “cash advance” but *bun-tho* “register of debts.”

4.1.2. Nominal clips

NOMINAL CLIPS operate across word boundaries but within a single nominal. Thus we find *rdo-sbom* < *rdo sbom-pa* “heavy stone,” *pan-tshen* < *pandita tshen-po* “great scholar,” *ban-rgan* < *ban-de rgan-po* “old priest,” *sbañ-skam* < *sbañ skam-po* “dried dung,” *luñ-stoñ* < *luñ-pa stoñ-pa* “empty valley,” *gañs-dkar* < *gañs dkar-po* “white glacier,” *dguñ-sño* < *dguñ sño-ba* “blue heaven,” *phyag-tshen* < *phyag-rgya tshen-po* “Great Symbol,” *khañ-gog* < *khañ-pa gog-po* “ruined house.”

4.1.3. Phrase clips

PHRASE CLIPS operate across one nominal phrase boundary but within the boundary of a larger nominal or verbal phrase. There are four types of phrase clip—COORDINATE CLIPS, as in *ri-luñ* < *ri-dañ luñ-pa* “mountain and valley”; ADNOMINAL CLIPS, as in *rag-bum* < *ra-gan-gyi bum-pa* “brass vessel”; RELATIVE CLIPS, as in *nor-ldan* < *nor-dañ ldan-pa* “possessing wealth”; and VERB CLIPS, as in *nbod-SKUL* < *nbod-par SKUL* “exhort declaimingly.” These four types will be treated separately in the following sections.

4.1.3.1. Coordinate clips

COORDINATE CLIPS are disyllabic reductions of nominal phrases which are processed as having originally been joined by *-dañ* “AND.” Coordinate clips frequently consist of two nouns which are, in some way, semantically coordinate as well—for example, *gnam-sa* < *gnam-dañ sa* “heaven and

earth," *śa-tshañ* < *śa-dañ tshañ* "meat and beer," *yon-mišhod* < *yon-bdag-dañ mišhod-gnas* "lay patron and religious master," *lo-pañ* < *lo-tsā-ba-dañ pañđita* "translator and informant," *skyabs-sems* < *skyabs-ngrō-dañ sems-skyed* "going for refuge and awakening the thought of enlightenment," *tshe-bsod* < *tshe-dañ bsod-nams* "life and merit," *rgyal-blon* < *rgyal-po-dañ blon-po* "king and minister." Coordinate clips occasionally consist of similarly coordinated adjectives—for example, *dkar-gsal* < *dkar-po-dañ gsal-po* "white and clear," *ldžañ-gzon* < *ldžañ-gu-dañ gzon-nu* "green and fresh."²³

4.1.3.2. Adnominal clips

ADNOMINAL CLIPS are disyllabic reductions of nominal phrases which are processed as having originally been joined by the subordinating adnominal particle *-kyi*. Adnominal clips frequently consist of two nouns of which the first modifies the second—for example, *señ-phrug* < *señ-gei phrug-gu* "lion's cub," *sog-lham* < *sog-poi lham* "Mongol boots," *gser-me* < *gser-gyi me-tog* "golden flower," *gsus-nad* < *gsus-pai nad* "disease of the stomach," *ltšags-sgrog* < *ltšags-kyi sgrog* "iron fetters," *nphreñ-rdog* < *nphreñ-bai rdog-po* "beads of a rosary." Adnominal clips also consist of an adjective modifying a following noun. Such adjectives may be primary—for example, *blun-gtam* < *blun-poi gtam* "foolish talk," *dkar-zas* < *dkar-poi zas* "white food," *nag-sran* < *nag-poi sran-ma* "black beans," *bzañ-spyod* < *bzañ-poi spyod-pa* "good conduct," *dkon-nor* < *dkon-poi nor* "precious wealth"; or they may be derived—for example, *sñe-nbol* < *sñe-bai nbol* "pillow to rest on," *nbri-smyug* < *nbri-bai smyug-ma* "writing pen," *sloñ-rkyen* < *sloñ-bai rkyen* "instigating cause," *ndžu-stobs* < *ndžu-bai stobs* "digestive power," *ndžug-sgo* < *ndžug-pai sgo* "entry door."

4.1.3.3. Relative clips

RELATIVE CLIPS are disyllabic reductions of nominal phrases which are pro-

²³ While clips usually select stressed syllables as their components, a few coordinate clips depart from this pattern—*gsal-stoñ* < *od-gsal-dañ stoñ-pa-ñid* "Clear Light and Emptiness" (but note *bde-stoñ* < *bde-tshen-dañ stoñ-pa-ñid* "Great Bliss and Emptiness"), *btšad-lhug* < *tshigs-btšad-dañ lhug-ma* "poetry and prose," *dpon-slob* < *slob-dpon-dañ slob-ma* "master and disciple," *bsag-sbyañ* < *tshogs-bsag-dañ sdig-sbyañ* "gaining merit and cleansing sin."

cessed as having originally been a proposition, with verb and one participant, relativized by the nominalizing particle *-Pa* and functioning as the modifier of some head—for example, *yid-myos* < *yid-Ø myos-pa* “confused,” *mtshon-gdeñ* < *mtshon-Ø gdeñ-ba* “brandishing a weapon,” *sdig-yod* < *sdig-pa-Ø yod-pa* “having sin,” *ndod-med* < *ndod-pa-Ø med-pa* “without desire,” *ndod-bral* < *ndod-pa-dañ bral-ba* “free from desire,” *nor-ldan* < *nor-dañ ldan-pa* “possessing wealth,” *nkhör-btśas* < *nkhör-ba-dañ btśas-pa* “along with a retinue,” *de-ndra* < *de-dañ ndra-ba* “like that,” *tshañ-bzi* < *tshañ-gis bzi-ba* “drunk on beer,” *rgyas-btab* < *rgya-s btab-pa* “sealed with a seal,” *sñon-ngrø* < *sñon-du ngrø-ba* “preliminary,” *rdžes-skyes* < *rdžes-su skyes-pa* “subsequent.”

4.1.3.4. Verb clips

VERB CLIPS are disyllabic reductions of verb phrases which are processed as having originally consisted of a verb modified adverbially by a preceding nominalized verb—for example, *nkyer-Oñ* < *nkyer-bar Oñ* “come carrying,” *ñu-BOD* < *ñu-bar BOD* “exclaim while weeping,” *nbog-TSHI* < *nbog-par TSHI* “drop down dead,” *gsog-DŽAG* < *gsog-par DŽAG* “put aside hoardingly,” *nbod-SKUL* < *nbod-par SKUL* “exhort declaimingly,” *rkyal-RTSE* < *rkyal-bar RTSE* “amuse oneself by swimming,” *gsod-TŠAD* < *gsod-par TŠAD* “cut down murderously.”

4.2. SYLLABIC CYCLES

As we will see, there is reason to believe that some Tibetan syllables are in fact compressions of earlier disyllabic collocations—for example, Thebor *brul*, Magari *bul*, Burmese *mrwe*, Mikir *phurul*, Lushei *rūl*, Tangkhul *phərə* “snake,” but Proto-Tibetan *ša-*brul* “ANIMAL snake” > *s-*brul* > **sbrul* “snake”; Old Chinese *syen “bitter,” Burmese *asañ*, Kanauri *śin*, Miri *əśin*, Kachin *sin*, Lushei *thin* “liver,” but Proto-Tibetan *myi-tśin “HUMAN BODY PART liver” > *m-iśin > *miśin “liver”; Proto-Tibetan *btsa-sa “bring forth place” > **btsa-s* > **btsas* “harvest.” Some of these monosyllables then once again become disyllabic through affixation or compounding—thus Proto-Tibetan **sbrul* > Old Tibetan *sbrul* “snake,” but Proto-Tibetan **mtśhin* > Old Ti-

betan *mtshin-pa* "liver," and Proto-Tibetan **btsas* > Old Tibetan *btsas-ma* "harvest."²⁴

There is thus some evidence for the existence in Tibetan of a CYCLE of syllabism, with words alternately compressed and expanded into monosyllabic and disyllabic forms. Note particularly, in this regard, Nung *the*, Mikir *the*, Kanauri *te*, Miju *tai*, Kukish *dei* "big," Proto-Tibetan **myi-the* "HUMAN BODY PART big" > **m-the* > **mthe* "thumb" > Old Tibetan *mthe-bo* "thumb" > *mtheb* "finger" in such contractions as *mtheb-tshuñ* "little finger." We might project, for example, such cyclic sequences as Proto-Tibetan **myi-tśin* > **mtshin* > Old Tibetan *mtshin-pa* > New Tibetan (Lhasa) *tshimpə* > ?*tshimp* "liver," Proto-Tibetan **myi-the* > **mthe* > Old Tibetan *mthe-bo* > New Tibetan (Lhasa) *thepo* > ?*thep* "thumb," Proto-Tibetan **btsa-sa* > **btsas* > Old Tibetan *btsas-ma* > New Tibetan (Lhasa) *tsema* > ?*tsem* "harvest," Proto-Tibetan **sa-bal* > **sbal* > Old Tibetan *sbal-pa* > New Tibetan (Lhasa) *pepa* > ?*pep* "frog." And, of course, such a cycle would presumably extend indefinitely into the past; it would be a chicken-and-egg question to ask whether monosyllabism or disyllabism was the older state of the language.

²⁴ Thus also Burmese *bha* "frog," but Proto-Tibetan **sa-bal* "ANIMAL frog" > **s-bal* > **sbal* > Old Tibetan *sbal-pa* "frog"; Lushei *ti*, Garo *-tik*, Lepcha *dik* "scorpion," but Proto-Tibetan **sa-dig* "ANIMAL scorpion" > **s-dig* > **sdig* > Old Tibetan *sdig-pa* "scorpion"; Lushei *kal*, Tiddim Chin *kal*, Chepang *gal*, Kaika *khal* "kidney," but Proto-Tibetan **myi-khal* "HUMAN BODY PART kidney" > **m-khal* > **mkhal* > Old Tibetan *mkhal-ma* "kidney"; Lepcha *kri* "bitter," Kachin *khri* "acid, sour," Burmese *khre* "bile," Dimari *khiri* "sour," but Proto-Tibetan **myi-khris* "HUMAN BODY PART bile" > **mi-khris* > **mkhris* > Old Tibetan *mkhris-pa* "bile."

1. PRELIMINARIES

1.1. THE SCOPE OF MORPHOLOGY

There is a traditional and often useful distinction made between the MORPHOLOGY of a language and its SYNTAX—roughly, between the ways in which words in the language come to assume their particular forms, and the ways in which these forms are strung together to make a grammatical utterance.

Within morphology we can further distinguish two different types of process. There are morphological processes that CREATE new words, and there are morphological processes that MODIFY words already in existence. Thus we may say that *child* and *children* are different FORMS of the same WORD, since they have the same semantic content and belong to the same grammatical category; but *child* and *childish* must be accounted different words altogether, although clearly related by a relatively transparent process of derivation.

Words bring meaning to birth and themselves contain the meaning as an imminent possibility before the pangs of junction. To the individual artist the use of words is an adventure in discovery; the imagination is heuristic among the words it manipulates.

—R.P. Blackmur,
The Expense of Greatness

In Tibetan, similarly, *sdud* “joins together” and *bsdus* “joined together” are different forms—present and past stems—of the same word *SDU* “join together,” while *NDU* “come together,” *mdud* “knot,” *ndun-ma* “council,” *sdud* “fold of a garment,” *mdun-ma* “wife,” and *TU* “gather” are different words,

although it is clear too that *sdu*, *ndu*, *tu*, *mdud*, *ndun-ma*, *sdud*, and *mdun-ma* are closely related to each other.

There are thus two branches of morphology: we will use the term LEXICAL MORPHOLOGY for those processes that create words, and the term INFLECTIONAL MORPHOLOGY for those processes that change the form of words. It is important to keep these two kinds of morphology distinct, especially as the study of classical Tibetan seems to have been long bedeviled by their confusion.

1.2. THE "PARTS OF SPEECH"

There are two types of words in Tibetan—grammatical words and lexical words. A class of GRAMMATICAL WORDS, such as the conjunctions, has relatively few members and is unlikely to be added to by the usual processes of word formation: conjunctions form a closed class of words. On the other hand, a class of LEXICAL WORDS, such as the nouns, has relatively many members: one can choose a noun from a very large set of possible alternatives. Only such a lexical class can be productive—that is, added to by new coinages with relative ease. Nouns form an open class of words.¹

Classical Tibetan has three classes of lexical words—NOUNS, ADJECTIVES, and VERBS. Each such part of speech can in general be defined by its occurrence and nonoccurrence in specific environments. First we can distinguish those words that may occur before the determiner *ndi* “THIS” (thus *rta* “horse” *rta ndi* “this horse,” *tshen-po* “great” *tshen-po ndi* “this great one,” *sgom* “contemplate” but not *?sgom ndi*) from those words that may occur before the conjunction *-tšin* “AND” (thus *sgom* “contemplate” *sgom-tšin* “contemplates and . . .,” *rta* “horse” but not *rta-tšin*, *tshen-po* “great” but not *?tshen-po-tšin*). Next we can distinguish those words that may occur before an

¹ The distinction between lexical and grammatical words is precisely that drawn by the Chinese philologists between *shih-tzu*, words with a concrete significance, and *hsu-tzu*, “empty words” themselves empty of definable meaning but indicating the relationships among the other words. Such empty or grammatical words have generally been called PARTICLES in Sino-Tibetan linguistics. In classical Tibetan such particles may—while lexical words do not—undergo morphophonological changes conditioned, across syllable boundaries, by the last phoneme in the immediately preceding syllable. The Tibetan grammarians call such particles *phrad*, while lexical words are termed *miñ*.

intensifier such as *śin-tu* "very" from those words that may not (thus *tśhen-po* "great" *śin-tu tśhen-po* "very great," *sgom* "contemplate" *śin-tu sgom* "really contemplate," *rta* "horse" but not *?śin-tu rta*).

These two intersecting distinctions define the three lexical classes in Tibetan. Such words as *rta* "horse" (*rta ndi* "this horse" but not *?śin-tu rta* or *?rta-žīn*) we will call NOUNS. Such words as *tśhen-po* "great" (*tśhen-po ndi* "this great one" and *śin-tu tśhen-po* "very great" but not *?tśhen-po-žīn*) we will call ADJECTIVES. And such words as *sgom* "contemplate" (*śin-tu sgom* "really contemplates" and *sgom-žīn* "contemplates and . . ." but not *?sgom ndi*) we will call VERBS. Every Tibetan lexical word belongs to one or other of these three classes.²

2. LEXICAL MORPHOLOGY

At any stage of a language we may distinguish between OLD WORDS inherited from earlier stages and NEW WORDS created in any of several ways. For example, Old Tibetan *ña* "fish" was an old word³ inherited from Proto-

² There are, of course, some exceptions and apparent exceptions to these generalizations. An intensifier such as *śin-tu* "very" may precede a noun in some few loan words—for example, *dug* "poison" in *śin-tu dug* "wolfsbane." Sometimes in poetic composition a participant nominal phrase may be transposed between an intensifier and its verb—for example, in the well-known hymn *Btśom-lđan ndas-ma yañ-dag-par rdzogs-pa sañs-rgyas bstod-pa gsuñs-pa* to the twenty-one forms of the goddess Tārā, where we read *rtag-par śin-tu od ni mdzad-ma* "she who always truly creates light." And sometimes an intensified verbal phrase is nominalized as a whole, creating the illusion of an intensified noun—for example, *śin-tu dga-ba* "great joy," which must be analyzed not as (*śin-tu*) (*dga-ba*) but rather as ((*śin-tu DGA*)-*Pa*), in just the same way as *mi-dga-ba* "unhappiness" must be analyzed not as (*mi*) (*dga-ba*) but rather as ((*mi-DGA*)-*Pa*).

³ The word *ña* "fish" is, apparently, a very old word. We find Burmese *ña*, Kachin *ña*, Tsangla *ña*, Nung *ña*, Lepcha *ño*, Chepang *ña~ña*, Pwo *ña*, Sgaw *ña*, Lisu *ñwa*, Akha *ña*, Mpi *ño*, and Old Chinese **nyo* "fish," so that Old Tibetan *ña* is, in some sense, the same word as the hypothetically reconstructed Proto-Sino-Tibetan **nya*. On the other hand, the word *rta* "horse," not found elsewhere in the Sino-Tibetan languages, was apparently a new word in Tibetan; I do not know where the word came from.

Other words appear equally old, but have a more complex history. Old Chinese **ŋyak* < **ŋryak* originally meant something like "color"; the graph for the word consists of the graph for "man" above and the graph for "seal, stamp" below, to indicate printing ink. The term

Tibetan *ñya, but Old Tibetan sañs-rgyas "Buddha" was a new word created to fill a new lexical need. Similarly, New Tibetan (Lhasa) sance <sañs-rgyas> "Buddha" is an old word inherited from Old Tibetan sañs-rgyas, but New Tibetan (Lhasa) kepa <skad-par> "phonograph" is a new word created to fill a new lexical need.

New words in Tibetan have come from a variety of sources. A new word may be a CONSTRUCTION from existing old words—for example, Old Tibetan mye-rdo "fire stone → flint" or New Tibetan (Lhasa) mema "fire arrow → gun." Or a new word may have been BORROWED from outside the language—for example, Middle Tibetan ba-dur "warrior" < Mongol baγatur or New Tibetan (Lhasa) peskop "movies" < English bioscope. Or a new word may be an IMITATION of a natural sound—for example, Old Tibetan pi-pi "flute" or New Tibetan (Lhasa) pakpak "machine gun."⁴

continues to mean simply "color," but also, more specifically, the color of the face, and thus, from early times, "countenance, looks, beauty," and eventually, in Chinese, "lust, lewdness." In Tibeto-Burman, facial coloring was semantically specialized in a different direction: we find Bunyan ūrag "shame," Magari kha-rak "be ashamed," Nung'sora "shame," Burmese hrak "be ashamed, shy," Mikir therak "shame, disgrace; be ashamed, blush." In Proto-Tibetan we can reconstruct a verb *śrag, presumably with a similar meaning "be ashamed"; in the classical language we find, with regular phonological change, the verb ūAG "confess."

From *śrag too we find a noun *śrag-sa "shame place" > Old Tibetan ūags, with two divergent meanings. On the one hand, the term, often with an honorific, as in bka-śags~miśhid-śags~gsol-śags, appears as early as in the ninth-century Central Asian manuscripts with the meaning "dispute, quarrel, matter in contention"—for example, where a letter found at a Tibetan oasis garrison says that the Minister at Rta-zor bka-śags thugs-la tshi dgoñs-pa gdab "will decide the dispute as he thinks best." As an extension of this meaning, the term apparently comes to mean "petition, complaint, formal statement of a case"—for example, where a divination manual says that, as a result of a favorable augury, gsol-śags byas-na gnañ "if you have made a petition, it will be granted." And, as an extension of this meaning, the term ūags comes to mean as well "concise statement, aphorism, adage"—for example, in a ninth-century collection of proverbs entitled Sum-pa ma ūags tshen-po "The Big Book of Sayings of Mother Sum-pa." On the other hand, we find a different constellation of meanings for *śrag-sa "shame place" > Old Tibetan ūags, where the term comes to mean "ridicule, sarcasm, joke at the expense of another"—for example, ūags tshe-ba byed "insults maliciously," ūan-śags "a bad joke."

⁴ But when is a word a NEW WORD? Note, for example, the old words rdo "stone," riñ-po "long," and sbom-po "heavy." We might find the two expressions rdo-sbom "heavy stone" and rdo-riñ "monument" in a Tibetan text. Both are single disyllabic stress groups. Which

is a new word and which is not? A proper criterion of lexicalization should enable us to determine that the latter is—and the former is not—a WORD in the Tibetan language.

A lexicographer might invoke three criteria to determine whether an expression has been lexicalized in the language. First, a lexicographer might consider the FREQUENCY with which the expression occurs. If *nor-tsan* "possessing wealth" is a word that deserves a lexical entry, then does *ra-tsan* "possessing horses" deserve one too? Does *phag-tsan* "possessing pigs"? A lexicographer might resolve the difficulty by noting that the collocation *nor-tsan* "possessing wealth" occurs in the texts with some frequency, while *ra-tsan* "possessing horses" appears sporadically at best—and *phag-tsan* "possessing pigs" does not to my knowledge occur at all. Where an expression is otherwise well-formed but occurs in the literature with insufficient frequency—as is the case with *phag-tsan*—under this criterion the expression remains unlexicalized.

Second, a lexicographer might consider the GRAMMATICAL CATEGORY of the expression, and consider the expression to have been lexicalized where its grammatical category has been changed in the construction. Under this criterion, for example, the adjective *ndzer-po* "hoarse" is a new word because it is in a different grammatical category than its source verb *DZER* "be hoarse," and the adjective *mag-tsan* "purulent" is a new word because it is in a different grammatical category than its source noun *mag* "pus."

Third, a lexicographer might consider the SEMANTIC CONTENT of the expression. A broad version of this criterion is to consider an expression to have been lexicalized where its semantic content has been changed in its construction. Under this criterion, for example, the noun *bya-mo* "female bird" is a new word because it has a different semantic content than its source noun *bya* "bird," and the noun *rkañ-duñ* "ritual trumpet made from a human thighbone" is a new word because it has a different semantic content than the sum of its component nouns *rkañ-pa* "foot, leg" and *duñ* "conch shell."

A stricter version of this criterion is to consider an expression to have been lexicalized where its content is SEMANTICALLY EXOCENTRIC—that is, where the meaning of the expression is not predictable from its components, and the head member of the collocation cannot be substituted for the whole without semantic change. Under this criterion, for example, the noun *ngro-ba* "living creature" is a new word because its meaning differs from the etymologically expected "goer" < *NGRO* "go," while the noun *sloñ-ba* "beggar" is not a new word because its meaning is predictable from its source verb *SLAÑ* "beg." Similarly, under this criterion, the noun *mdeu* "arrowhead" is a new word because its meaning differs from the etymologically expected "little arrow" < *mda* "arrow," while the noun *flu* "little fish" is not a new word because its meaning is predictable from its source noun *la* "fish."

This criterion can be applied as well to disyllabic collocations of existing words. The stress groups *rdo-dkar* "white stone," *rdo-ril* "round stone," and *rdo-sbom* "heavy stone" are nonlexicalized and semantically endocentric: their meaning is predictable, and in any context

2.1. CONSTRUCTIONS

The CONSTRUCTION of new words out of the existing stock of the language takes place through the two processes of compounding and derivation. COMPOUNDING is the process whereby new words are created by the juxtaposition of two existing words—for example, Old Tibetan *śin-rtā* “wood horse → cart” and New Tibetan (Lhasa) *kank><rkāñ-nkhor>* “foot wheel → bicycle.” DERIVATION is the process whereby new words are created from single existing words by affixing elements that are not themselves independent

(“I hit him with a —”) the head member may substitute for the whole collocation. In a strict sense, such stress groups are not the concern of the lexicon at all, since they are not separate words.

On the other hand, the stress groups *rdo-riñ* “long stone → monument” and *rdo-rdžé* “noble stone → vajra” are new words. They are lexicalized and semantically exocentric: their meaning is unpredictable, and in any context (“I hit him with a —”) the head member may not substitute for the whole collocation without changing the meaning of what is asserted. It is only such collocations as these that would, ideally, be listed in the lexicon.

Compare, also, *rdo-rtsig* “stone wall” and *rdo-zam* “stone bridge,” which are semantically endocentric and predictable, with *rdo-žo* “stone milk → lime” and *rdo-snum* “stone oil → petroleum,” which are semantically exocentric and unpredictable.

It must of course be confessed that this distinction is not always entirely clear. It may be that the noun *sloñ-ba* “beggar” is semantically predictable from the source verb *SLAÑ* “beg.” But we also find the expressions *sloñ-ma* “female beggar” and *sloñ-mo* “alms.” Which of these is semantically predictable? Again, the collocation *mtshod-rien* “offering support → stūpa/caitya” seems arguably lexicalized under this criterion, but it is more difficult to decide about *mtshod-khañ* “offering house → temple.” Much seems to depend on a rather personal sense of what is semantically predictable and what is not. Much also seems to depend on the existence of similar collocations: the expression *mtshod-khai* “offering house → temple” looks considerably more endocentric in the light of *sman-khañ* “medicine house → apothecary,” *bzo-khañ* “craft house → workshop,” and *sog-khañ* “paper house → shop where paper is kept or manufactured.”

In all these cases, lexicographers must inevitably make difficult decisions as to which expressions are in fact sufficiently lexicalized to be considered words in the language; the judgment is complicated too by theoretical considerations regarding the distribution of functions between the grammar and the lexicon in a proper description of a language. A user of lexical resources also must recognize the problems that underlie the works upon which he or she must rely. There is no reason to believe that the following sections will substantially alleviate these difficulties.

words—for example, Old Tibetan *nad-bu* “disease” *nad-bu-tšan* “diseased” and New Tibetan (Lhasa) *matsa* <*ma-rtsa*> “capital” *matsašEN* <*ma-rtsa-tšan*> “capitalist.”

2.1.1. Compounds

2.1.1.1. Native compounds

As part of its stock of Tibeto-Burman morphological devices, classical Tibetan had available several ways of compounding old words to create new words—for example, modifying a noun with a preceding noun, as in *me-rdo* “fire stone → flint,” or modifying a noun with a following adjective, as in *rdo-riñ* “long stone → monument.” Indeed, these devices have remained productive throughout the history of the language; parallel to the two preceding examples, we find, for example, New Tibetan (Lhasa) *menta* <*me-mda*> “fire arrow → gun” and *pōñEN* <*dpon-ñan*> “wicked lord → bureaucrat.” However, with the massive influx of Buddhist terms in the ninth century, the language used additional devices, in part derived from Sanskrit models, in order to render these new terms in Tibetan—for example, compounding two adjectives, as in *sāñs-rgyas* “awakened expanded → Buddha,” or, prototypically, modifying a verb with a preceding intensifier, as in *mam-par ſES* “particularly know → perceive (*vi-/jñā*). These latter devices tend to be found primarily in these loan creations from Sanskrit originals; such translation compounds will be treated separately.

2.1.1.1.1. NOUN + NOUN → NOUN

There are four ways in which native compounds yield new nouns in the classical language—NOUN + NOUN, ADJECTIVE + NOUN, NOUN + ADJECTIVE, and ADJECTIVE + ADJECTIVE.⁵ In the first instance, a noun may be modified

⁵ These four types of native noun compounds continue to be productive in New Tibetan. Among new NOUN + NOUN → NOUN compounds we find, for example, New Tibetan (Lhasa) *menta* <*me-mda*> “fire arrow → gun,” as well as *kañkɔ* <*rkañ-nkhor*> “foot wheel → bicycle,” *nampu* <*gnam-gru*> “sky boat → airplane,” *tšaklam* <*ltšags-lam*> “iron road → railway,” *kepa* <*skad-par*> “voice print → phonograph,” *mecɔ* <*me-sgyogs*> “fire catapult → artillery,” *thötsa* <*gros-tshogs*> “advice assembly → parliament,” *sukūn* <*bzo-rkun*> “work thief → scab.” Among new NOUN + ADJECTIVE → NOUN compounds we find, for example, New Tibetan (Lhasa) *pōñEN* <*dpon-ñan*> “wicked lord → bureaucrat,” as well as

with a preceding noun to yield a noun with a new meaning. Thus we find *lag-šubs* "hand sheath → glove," *spu-gri* "hair knife → razor," *dñul-tšhu* "silver water → quicksilver," *tšhu-mig* "water eye → well," *mig-tšhu* "eye water → tears," *dri-tšhu* "odor water → urine," *byin-rlabs* "splendor wave → blessing," *tshos-gzì* "religion basis → monastery," *rkañ-duñ* "leg conch → thighbone trumpet," *sbrañ-rtsi* "bee juice → honey," *gtam-dpe* "talk model → proverb," *ša-mdog* "flesh color → complexion," *ri-khrod* "mountain crowd → wilderness," *kha-lpags* "mouth skin → lip," *bku-babs* "speech descent → tradition," *sñiñ-rus* "heart bone → courage," *og-sgo* "underpart door → anus," *dur-spyañ* "graveyard wolf → jackal."

2.1.1.1.2. ADJECTIVE + NOUN → NOUN

Similarly, a noun may be modified with a preceding adjective to yield a noun with a new meaning. Thus we find *dben-gnas* "solitary place → hermitage," *dam-tshig* "holy word → vow," *bzañ-spyod* "good conduct → bodhisattva deeds," *drag-šul* "violent leftover → supernatural frightfulness," *log-lta* "inverted view → heresy," *mthun-rkyen* "harmonious circumstance → assistance," *dmar-bšal* "red diarrhea → dysentery," *ser-nphren* "yellow garland → ecclesiastical procession," *dkar-phyogs* "white direction → good spirits," *nag-phyogs* "black direction → bad spirits," *tshé-mi* "large person → adult," *ñan-phye* "bad flour → roasted meal," *ñe-rigs* "near lineage → kinsman," *drag-rigs* "noble lineage → aristocracy."

2.1.1.1.3. NOUN + ADJECTIVE → NOUN

Or, again, a noun may be modified with a following adjective to yield a noun

tshokšen <*tshogs-tshen*> "big assembly → plenary session," *thraññun* <*graññs-ñuñ*> "small number → minority," *luthún* <*blo-mthun*> "agreeable mind → comrade." Among new ADJECTIVE + NOUN → NOUN compounds we find, for example, *thonðn* <*mtho-gnor*> "high pressure → high voltage" (as in *thonðn loká* <*mtho-gnor glog-skud*> "high pressure lightning thread → high voltage electric wire"), *noñsa* <*mo-ltags*> "sharp iron → steel," *tiñpu* <*diñ-gru*> "floating boat → airship," *sartse* <*gsar-brdze*> "new change → revolution," *marsö* <*dmar-gsod*> "red killing → massacre." Finally, the older ADJECTIVE + ADJECTIVE → NOUN compounds continue to be used—for example, New Tibetan (Lhasa) *ñiriñ* <*ñe-riñ*> "near far → distance," *riñnun* <*riñ-thuñ*> "long short → length," *ciu* <*skyid-sdug*> "happy sad → standard of living."

with a new meaning. Thus we find *glañ-tshen* "great ox → elephant," *dri-tshen* "great odor → excrement," *ño-tsha* "hot face → shame," *rdo-riñ* "long stone → monument," *hya-rgod* "wild bird → vulture," *hya-nag* "black bird → raven," *zwa-nag* "black hat → shaman costume," *mññ-nan* "bad name → infamy," *mig-thuñ* "short eye → nearsightedness," *skye-dman* "low birth → woman," *tshu-ser* "yellow water → pus," *ñañ-sñan* "sweet speech → poetry," *ses-rab* "best knowledge → wisdom."

2.1.1.4. ADJECTIVE + ADJECTIVE → NOUN

The fourth type of native noun compound, of the form ADJECTIVE + ADJECTIVE → NOUN, is productive only within a relatively restricted semantic range: here two semantically opposed adjectives yield an abstract noun of which the two adjectives are polar exemplars.⁶ Thus we find *riñ-thuñ* "long short → length," *tshe-tshuñ* "big little → size," *srab-mthug* "thin thick → density," *grañ-dro* "cold warm → climate," *ñe-riñ* "near far → distance," *bzañ-nan* "good bad → virtue," *skam-rlon* "dry wet → dampness," *mtho-dman* "high low → height," *skyid-sdug* "happy sad → luck," *tsha-grañ* "hot cold → temperature," *mtshog-dman* "best worst → quality," *drag-žan* "strong weak → power."⁷

⁶ This type of compound is strikingly reminiscent of Chinese morphology, which uses the same device to form such abstract nouns—for example, *to-shao* "many few → quantity," *ta-hsiao* "big little → size," *kao-hsia* "high low → quality," *yuan-chin* "far near → distance," *han-wen* "cold warm → weather." Note, too, that the other three types of noun compound consist of a HEAD and either a noun or adjective MODIFIER; the ADJECTIVE + ADJECTIVE → NOUN compound does not have a head.

⁷ Such ADJECTIVE + ADJECTIVE → NOUN compounds are not uncommon, for example, in the Ge-sar epic: note *rgan-glon* "old young → age" in *rgan-glon gral-gyi thob-ngrigs gyis* "Take your places in order of age," *yag-ñes* "good bad → quality" in *las yag-ñes bla-hai mig-dañ ndra* "They are like eyes that will see the quality of deeds," and *yag-rtsgog* "good ugly → beauty" and *bzañ-nan* "good bad → virtue" in the couplet *yag-rtsgog mig-lam nbab-lugs red, bzañ-nan sems-kyi dpyad-lugs red* "Beauty is the falling of a glance; virtue is the determination of the mind." Note here the playful use of the compounds *mgyogs-bul* "fast slow → speed," *bzañ-nan* "good bad → quality," *rgod-žan* "strong weak → strength," *dar-rgud* "growing failing → fluctuation," and *thob-žor* "won lost → outcome" in parallel structures:

ra-la mgyogs-bul zer-ba de
nub-gtšig rtsa-tshu bzañ-nan yin
pho-la rgod-žan zer-ba de
ñin-gtšig rluñ-rta dar-rgud yin

2.1.1.5. NOUN + VERB → VERB

In addition to these four types of noun compound, the classical language had a native verb compound that linked a verb with a participant noun to yield a verb with a new meaning. Many such compounds consist of a transitive verb and its patient participant functioning as a single semantic unit—for example, *sgra-SGYUR* “change words → translate,” *dbañ-SKUR* “transmit power → initiate,” *mgo-DON* “hold up the head → be proud,” *mgo-SKOR* “encircle the head → deceive,” *mun-SAL* “clear away darkness → illumine,” *khag-THEG* “carry responsibility → guarantee,” *khrus-SLOG* “turn earth → plough,” *ño-ÑES* “know the face → recognize,” *rkañ-DRAÑ* “pull the foot → disgrace,” *sna-DRAÑ* “pull the nose → lead,” *gdam-DRAÑ* “pull the seat → invite,” *mna-ZA* “eat a vow → commit perjury,” *thugs-sÑUÑ* “sicken the heart → be disagreeable,” *sems-GSO* “heal the mind → console,” *ñañ-THUÑ* “shorten the disposition → lose one’s temper,” *thag-TŠAD* “cut the rope → decide.”

Additionally, we find the preceding noun in other syntactic relations with the following verb—for example, *blo-s TAÑ* “dismiss WITH the mind → renounce,” *lam-la KHYER* “carry ON the road → put to daily use,” *sems-la SBYAR* “take TO mind → pay attention,” *myañ-nan-las NDA* “pass BEYOND suffering → enter nirvana,” *mdo-r SDU* “compress INTO aphorisms → summarize,” *tshigs-su TŠAD* “cut INTO stanzas → write poetry,” *snod-du RUÑ* “be proper AS vessel → be fit to receive teachings,” *yid-du OÑ* “come INTO the mind → be pleasing.” Where such compounds contain more than two syllables they are particularly liable to be clipped into disyllabic stress groups—for example, *myañ-NDA* < *myañ-nan-las NDA* “pass beyond suffering → enter nirvana,” *sñiñ-ÑE* < *sñiñ-dañ ÑE* “be close to the heart → love,” *las-SBYAR* < *las-la SBYAR* “put to work → apply,” *yid-OÑ* < *yid-du OÑ* “come into the mind → be pleasing.”⁸

*rgyan-la thob-šor zer-ba de
dbañ-thañ ri-mo gar-bris yin*

What is called the speed of a horse
is the quality of one night's feed;
what is called the strength of a man
is the flow of one day's luck;
what is called the outcome of a bet
is the writing of the lines of destiny.

⁸ Despite the fact that they are compounds, such verbs can be syntactically discontinuous. The negative particle *mi-* “NOT” occurs immediately before a verbal tense stem, and thus

2.1.1.2. Translation compounds

2.1.1.2.1. ADJECTIVE + ADJECTIVE → NOUN

As new Buddhist terms from India sought entry into the Tibetan lexicon, several additional types of compound were developed to express the new ideas. One type of such TRANSLATION COMPOUND is formed by combining two adjectives, functioning as headless modifiers, to yield a new noun, often based on Indic folk etymologies or Buddhist philosophical analysis; such compounds, of course, differ from such native ADJECTIVE + ADJECTIVE → NOUN compounds

after the noun portion of a NOUN + VERB → VERB compound—thus, for example, *mgo-KHOR* “have the head encircled → become confused” *khyed-kyi kha-sbyāñ-gis ñed* *mgo-mi-nkhor* “We are not taken in by your eloquence.” Other propositional participants can also come between the two components of such verb compounds. In a poem by Mi-la ras-pa, for example, we find the compound *ño-SES* “know the face → recognize” in discontinuous form in the line *ña ño khyod-kyis ma-ses-na* “If you do not recognize me . . .” Note that the structure of this proposition is not *ñai ño-Ø khyod-kyis ma-ses-na* “If you do not know my face . . .”; rather the structure is equivalent to *ña-Ø khyod-kyis ño-ma-ses-na* “If you do not face-know me . . .”

Such NOUN + VERB → VERB compounds sometimes provide glimpses of Tibetan patterns of thought. One group of these compounds incorporates the patient participant *ño* “face”—for example, as we have seen, *ño-SES* “know the face → recognize.” But FACE, in Tibet, is clearly more than the surface of a thing. The face of something is an indication of its true nature—thus *ño-PHROD* “meet the face → know, understand, learn,” *ño-SPROD* “cause to meet/introduce the face → lay open the features of a thing, show its nature, teach.” The face of a person, similarly, is the barometer of the inner self—*ño-BAB* “have the face fall → lose courage,” *ño-TSHA* “have the face get warm → feel shame”; and the social face is the marker of personal worth—*ño-TSHÉ* “have the face be big → be appreciated, recognized, thanked,” *ño-SRUÑ* “guard the face → have regard for the opinion of others,” *ño-STOD* “elevate the face → praise, flatter,” *ño-LOG* “turn the face → desert, abandon, oppose.”

We find a similar series of these compounds incorporating the patient participant *yid-yi* “mind.” The Tibetan mind changes in size—for example, *yid-TSHÉ* “have the mind be big → believe,” *yid-THUÑ* “have the mind be short → be rash, overhasty,” *yi-PHIRI* “make the mind less → hate, dislike”; in this the mind shares the capacity of other internal organs—thus *sñiñ-tSHUÑ* “have the heart be little → be afraid,” *ñañ-THUÑ* “have the character be short → be impatient,” *ñañ-RJÑ* “have the character be long → be forebearing, long-suffering, phlegmatic.” Effects upon the mind are the sources of emotions—thus, *yid-KHUL* “have the mind subdued → be weary, troubled, harassed,” *yid-PHAM* “have the mind be defeated → be cast down, dejected, depressed,” *yid-PIROG* “steal the mind → infatuate, fascinate,” *yid-BYUÑ* “have the mind come out → be weary, discontented,” *yid-PYUÑ* “make the mind come out → make weary, cause to be discontented,” *yi-TSHAD* “cut the mind → despair.”

as *riñ-thuñ* "long short → size." Here, for example, we find *sañs-rgyas* "awakened expanded → Buddha" combining *sañs-pa* < Ø-TSAÑ-s "awakened" and *rgyas-pa* < Ø-RGYA-s "expanded," *bsod-sñoms* "pleasing equal → alms for monks" combining *bsod-pa* < N-BSOD "pleasing" and *sñoms-pa* < N-SÑOM-D "evenly distributed," *sdug-bsñal* "afflicted exhausted → suffering of the round of rebirth" combining *sdug-pa* < N-SDUG "afflicted, grieved, oppressed" and *bsñal-pa* < N-BSÑAL "exhausted." Similarly, we find *drañ-sroñ* "straight upright

Most of my friends like words too well. . . . Words are what stick to the real. We use them to push the real, to drag the real into the poem. They are what we hold on with, nothing else. They are as valuable in themselves as rope with nothing to be tied to.

—Jack Spicer,
Letter to Federico Garcia Lorca

→ Vedic seer" combining *drañ-po* "upright" with *sroñ-pa* < G-SRAÑ "straightened," *gañ-zag* "full dripping → person (*pudgala*)" combining *gañ-pa*-*gañ-po* "full" (compare *GAÑ* (*ngeñs/bkañ/dgañ/khoñ*) "fill") and **zag-pa* "dripping" (compare *DZAG* (*ndzag/bzags/gzag*) "make drip").

2.1.1.2.2. NOUN + VERB → NOUN

Another type of translation compound is a nominalized proposition functioning as a headless modifier, lexicalized primarily in clipped disyllabic form (as in *tshos-skyoñ* < Ø [(*tshos*-Ø *skyoñ*)-ba] "(a deity) who protects the dharma").⁹ Many such clipped disyllabic compounds thus appear to be of the form NOUN + VERB → NOUN, with the noun often being the patient participant

⁹ Loan creations such as these translation compounds are idiosyncratically lexicalized in disyllabic or polysyllabic forms. Thus, for example, among translations of Sanskrit epithets of various Buddhas listed in the ninth-century *Mahāvyutpatti* dictionary, we find both *tsod-med* "one who is without uncertainty" and *dri-ma med-pa* "one who is without impurity," both *śis-mdzad* "one who makes auspicious" and *śi-bar mdzad-pa* "one who makes calm," and the trisyllabic *dgra-btšom-pa* "one who conquers the enemy → arhan."

of a transitive or intransitive verb—for example, *bdud-ndul* “one who conquers demons → He Who Has Defeated the Evil One (*mārajū*),” *gnod-sbyin* “one who bestows harm → demon (*yakṣa*),” *tshos-skyoñ* “one who protects dharma → guardian deity (*dharmapāla*),” *dge-sloñ* “one who begs alms → monk (*bhikṣu*),” *sku-bsruñs* “one who protects the body → bodyguard (?*tālavarga*)”; although in some cases the participant role of the preceding noun may be oblique—for example, *don-grub* “one WHOSE aim is accomplished → Siddhārtha,” *rtsod-med* “one TO WHOM there is no uncertainty → Resolute One (*nirdvandva*).”¹⁰

¹⁰ The Lhasa City dialect of New Tibetan has become highly nominalized—that is, it tends to use, instead of a large number of verbs, a large number of abstract nouns and a relatively few auxiliary verbs. It is therefore not surprising that there are not many NOUN + VERB → VERB compounds in that dialect, except for those, such as *tshülen* <*tshu-ndren*> “draw water → irrigate,” which seem to be relatively old. Instead, we find NOUN + VERB → NOUN compounds, but these, again, differ from the earlier translation compounds of the same form. The translation compounds were clipped headless modifiers denoting the agent of the verbal action—for example, Old Tibetan *gnod-sbyin* “harm bestowing → type of demon.” The Lhasa City compounds, on the other hand, yield abstract nouns denoting the verbal action itself as modified by its relation to the preceding noun participant—for example, *thiña <dril-bsgrags>* “bell ringing → propaganda,” *šuñši <gžuñ-bžes>* “government taking → confiscation,” *kotše <sgo-nbyed>* “door opening → inauguration,” *ñamso <ñams-gso>* “defect repairing → renovation,” *tshöta <tshod-bla>* “measure seeing → experiment,” *näñrū <nañ-rul>* “inside rotting → treason,” *tshüñu <btshüñs-ngrol>* “freeing from fetters → liberation.” These abstract nouns can then be used as verbs with appropriate auxiliaries, such as *tshé <byed>* “do,” *ton <gioñ>* “send,” *cap <rgyab>* “act,” and their honorific equivalents—thus, for example, *kotše nan <sgo-nbyed gnañ>* “gives door opening → inauguates,” *ñamso tshé <ñams-gso byed>* “does defect repairing → renovates,” *tshüñu ton <btshüñs-ngrol gioñ>* “sends freeing from fetters → liberates.” Note the use of the same auxiliaries with other nominals as well—*namu ton <gnam-gru gioñ>* “flies an airplane,” *menta cap <me-mda rgyab>* “fires a gun,” *mentö tshé <sman-btšos byed>* “provides medical treatment,” *žapto cap <žabs-bro rgyab>* “does a dance.”

Similarly, the Lhasa City dialect is rich in compounds of the form VERB + VERB → NOUN, where the two verb stems are combined to yield an abstract noun denoting the intersection of the two—often more or less synonymous—verb stems. For example, we find *torši <gtor-bšig>* “scattering destroying → sabotage,” *ceten <skyal-ndren>* “accompanying leading → shipping,” *curtsü <bsgyur-bišos>* “changing healing → reforms,” *tsukñün <ndzugs-bskrun>* “founding producing → development,” *šuño <bšu-gžog>* “stripping cutting → exploitation,” as well as *thapsü <xhab-rtsod>* “fighting fighting → struggle,” *siñtu <züñ-nkhrug>* “quarreling quarreling → uprising,” *tsañse <gtsañ-sel>* “cleansing cleansing → purge,” and even *tsinsun <ndzin-bzuñ>* “holding holding → arrest,” combining the present and past stem of the same verb. As above, these abstract nouns can be used as verbs with appropriate

2.1.1.2.3. INTENSIFIER + VERB → VERB

Finally, a third type of translation compound, used in rendering Sanskrit verbs, is formed by combining a verb with a preceding adverbial intensifier such as *mñon-par* “manifestly,” *yoñs-su* “completely,” *yañ-dag-par* “perfectly,” or *mam-par* “particularly.” As the ninth-century translation guide *Sgra-sbyor bam-po gñis-pa* said, stating the official government translation policy,

pa-ri-dañ sam-dañ u-pa lta-bu la-sogs-te, tshig-gi phrad-dañ rgyan lta-bur nbyuñ-ba-mams bsgyur-na don-dañ mthun-žiñ nbyor-bai thabs ni, yoñs-su že-am, yañ-dag-pa že-am, ñe-ba žes sgra bžin-du sgyur-šig, don lhag-par sñegs-pa med-pa-mams ni tshig-gi lhad-kyis bsnan mi-dgos-kyis don bžin-du thogs-šig

When translating particles and embellishments such as *pari-*, *sam-*, *upa-*, and so on, the way to affix them in accordance with their meaning is to translate them with words like *yoñs-su*, *yañ-dag-pa*, and *ñe-ba*. But translate according to the meaning (of the expression as a whole) those that add nothing, because it is unnecessary to add superfluous words.

Thus, for example, we find *mñon-par ŠES* “manifestly know → perceive clairvoyantly (*abhi-/jñā*),” *mñon-par BYUÑ* “manifestly arise → leave home to become a monk (*niñ-/kram*),” *mam-par ŠES* “particularly know → perceive (*vi-/jñā*),” *mam-par RTAG* “particularly examine → impose conceptual constructs (*vi-/klp*),” *so-sor RTAG* “individually examine → know precisely (*praty-ava-jíkṣ*),” *so-sor MÑAN* “individually listen → answer (*prati-/śru*),” *rab-tu GNAS* “highly place → consecrate (*prati-/sthā*),” *rab-tu SBYAR* “highly connect → practice (*pra-/yuj*),” *rab-tu BYUÑ* “highly arise → become a religious mendicant (*pra-/vraj*),” *rdžes-su BYA* “consequently do → imitate (*anu-/kr*),” *rdžes-su DZUÑ* “consequently hold → favor (*anu-/grah*),” *rdžes-su DRAN* “consequently remember → practice contemplative mindfulness (*anu-/smṛ*),” *ñe-bar DŽAG* “closely put → apply (*upa-/sthā*).”

These verbal compounds are frequently nominalized; indeed, several such compounds have entered the classical lexicon solely in their nominalized

auxiliaries—for example, *tsiñsun išhe <ndzin-bzuñ byed>* “does holding holding → arrests,” *šušo ton <bšu-gzog gioñ>* “sends stripping cutting → exploits,” *ceñen išhe <skyel-ndren byed>* “does accompanying leading → ships.”

forms—for example, *so-sor thar-pa* “individual liberation → ecclesiastical rules (*prātimokṣa*),” *rdžes-su dpag-pa* “consequent weighing → logical inference (*anumāna*),” *mam-par smin-pa* “particular ripening → karmic retribution (*vipāka*).” All such nominalized intensifier-verb compounds are particularly liable to be clipped into disyllabic stress groups—thus *mam-šes* < *mam-par šes-pa* “particular knowing → perception (*vijñāna*),” *mam-rtog* < *mam-par rtog-pa* “particular examining → imposition of conceptual constructs (*vikalpa*),” *ñer-ndžog* < *ñe-bar ndžog-pa* “close putting → application (*upasthā*),” *rab-gnas* < *rab-tu gnas-pa* “high placing → consecration (*pratiṣṭhā*),” *mñon-šes* < *mñon-par šes-pa* “manifest knowing → clairvoyance (*abhijñā*),” as well as *sor-thar* < *so-sor thar-pa* “individual liberation → ecclesiastical rules (*prātimokṣa*),” *mam-smin* < *mam-par smin-pa* “outward ripening → karmic retribution (*vipāka*),” *rdžes-dpag* “consequent weighing → logical inference (*anumāna*).”

2.1.2. Derivations

DERIVATIONS of new words from old are of two types. We will use the term INNER DERIVATION to refer to those processes of derivation that operate within the syllable, using such NONSYLLABIC FORMATIVES as prefixed *s-* (as in *RJN* “be long” *SRIÑ* “make long”), suffixed *-d* (as in *DRO* “be warm” *drod* “warmth”), and infixated voicing (as in *THON* “emerge” *DON* “eject”). We will use the term OUTER DERIVATION to refer to those processes of derivation that operate outside the syllable, using either such SYLLABIC FORMATIVES as *-pa* “ONE HAVING TO DO WITH” (as in *mda* “arrow” *mda-pa* “archer”) or REDUPLICATION of the syllable as a whole (as in *rñam-po* “bright” *rñam-rñam* “dazzling”).

2.1.2.1. Inner derivation

2.1.2.1.1. CHANGE OF LEXICAL CATEGORY

One form of inner derivation creates verbs from nouns simply by taking the noun as a verb root—for example, *tshu* “water” *TSHU* (*ntshu/btshus/btshu*) “draw water, irrigate,” *rgyan* “ornament” *RGYAN* (*rgyan/bryyan/brygan*) “adorn,” *srab* “bridle” *SRAB* (*srab/bsrabs/bsrab*) “bridle a horse,” *tshibs* “horse” *TSHIB* (*ntshib/btshibs/btshib*) “ride a horse,” *lan* “answer” *LAN* (*glon/blan/gla*) “make reply,” *rlan* “moisture” *RLAN* (*rlon/brlan/brlan*) “make wet,” *smad* “lower part,

low rank" *SMAD* (*smod/smad/smad*) "defame, blame, vilify."¹¹ Such derivations are, in fact, relatively rare in Tibetan; but, where they occur, we often find them involved in word play: note, in the archaic poetry from Central Asia, *rta khyod ni khar srab-gyis srab* "You, horse, are bridled with a bridle in your mouth," *byams-kyi lan glan* "I will answer an answer to his kindness," *bgab-kyi zo bžos* "He milked the milk in secret," and, throughout the classical literature, *rgyan-gyis brgyan-pa* "adorned with adornments."

2.1.2.1.2. VOICING AND TRANSITIVITY

In classical Tibetan we find several pairs of verbs, clearly related phonologically and semantically, where one of the pair is marked as transitive, and the other as intransitive, by a difference in the voice onset time of the initial of the verb root. For example, in the verb pairs *KHOD* "be placed, be put" *GOD* "place, put," *TSHUN* "be tamed, be subdued" *DŽUN* "tame, subdue," *THON* "come out, emerge" *DON* "throw out, eject," *TSHUGS* "take root, become firm" *DZUGS* "plant, establish," *TSHUD* "be put, enter" *DZUD* "put, lead" the transitive verb is distinguished by a voiced initial. Unfortunately, the picture is far from simple. One complication is that it seems equally the case that intransitive verbs are distinguished by voiced initials: note the verb pairs *GRIL* "be twisted, be wrapped around" *KRIL* "embrace, clasp round," *DU* "come together, assemble" *TU* "gather, collect," *DOR* "be scattered, be dispersed" *TOR* "scatter, cast away," *BUD* "go away, disappear" *PUD* "transfer, put apart."

Nor do the problems end there. In some verb pairs, initial voicing seems unrelated to transitivity at all—for example, *KHRIG* "cohere, stick together" *GRIG* "correspond, fit together," *KHRUL* "wander astray" *GRUL* "travel." In some verb pairs, initial voicing seems to have indicated, at one time or another, both transitivity and intransitivity: for example, the roots *TSIAG* and *DZAG* both have both transitive and intransitive paradigms—that is, on the one hand, *TSIAG₁* (*ntshag/tshags*) "drip, trickle" *DZAG₂* (*ndzag/btsags/gzag*) "cause to trickle, strain, squeeze"; and, on the other hand, *DZAG₁* (*ndzag/zags*) "drip,

¹¹ See also *lug* "sheep" *LUG* "be sheepish, huddle together," and—although I think this example undercuts my analysis of inflectional morphology—*zo* "milk" *DŽO* (*ndžo/bžos/bžo*) "milk an animal." In the case of *rka* "furrow" *RKO* (*rko/brkos/brko*) "dig, gouge, hoe," the verb appears to have generalized the *o* in the present stem *rko* < *G-RKA to all stems; in that of *rdže* "lord, master" *RDŽED* (*rdžed/brdžed/brdžed*) "honor, reverence," the verb appears to have generalized the present stem inflectional suffix -D to all stems.

trickle" *TSHAG₂* (*ntshag/btsags/btsag*) "cause to trickle, strain, squeeze."

Finally, in too many verb pairs to be coincidental, the transitive verb is distinguished both by initial voicing and by use of the present stem inflectional suffix *-D*, while the intransitive verb seems to be a backformation from the transitive verb, generalizing the present stem of the same paradigm as the transitive member of the pair—for example, *KHEGS* (*nkhegs/khegs*) "be hindered, be prohibited" *GAG* (*ngags < N-GAG-D/bkag/dgag*) "hinder, prohibit," *KHEÑS* (*nkheñs/kheñs*) "be full" *GAÑ* (*ngéñs < N-GAÑ-D/bkañ/dgañ*) "fill," *KHEB* (*nkheb/khebs*) "be covered over" *GAB* (*ngébs < N-GAB-D/bkab/dgab*) "cover," *KHEL* (*nkhel/khel*) "be put on" *GAL* (*ngel < N-GAL-D/bkal/dgal*) "put on," *KHYED* (*nkhyed/khyed*) "be distributed" *GYE* (*ngyed < N-GYE-D/bgyes/bkye*) "divide, scatter, disperse," *THEBS* (*nthebs/thebs*) "be thrown, be hit" *DAB* (*ndebs < N-DAB-D/btab/gdab*) "throw, hit." There is every reason to believe that it is the intransitive verbs that are here late analogical developments from the transitive verbs. The process seems to have been to devoice the present stem of the transitive verb—for example, *GAG* "hinder" > *N-GAG-D* > *ngags* "hinders" > *nkhegs* "is hindered" > *KHEGS* "be hindered," *GYE* "distribute" > *N-GYE-D* > *ngyed* "distributes" > *nkhyed* "is distributed" > *KHYED* "be distributed." If this hypothesis is correct, it would tend to indicate that—at least at the time of the backformations—the association of voicing with transitivity was, in some sense, normative; this would, I think conform to the intuition of modern speakers, but would be inconsistent with the pattern of other Tibeto-Burman languages.¹²

2.1.2.1.3. THE FORMATIVE *m-* "HONORIFIC"

The prefix *m-* is found in a large number of words relating to the persons, property, and attributes of social and spiritual superiors. Note, for example, the nouns *mkha* "heaven," *mkhar* "castle," *mgon-po* "lord, protector," *mgron* "feast, banquet," *mña* "might, dominion," *mtshad-pa* "tomb, sepulchre," *mtshog* "the best," *mthu* "strength, magic power," *mda* "arrow," *mduñ* "spear, lance," *mdos* "threadcross," *mna* "oath," *mtshun* "offerings for the ancestors,"

¹² Compare, for example, Kanauri *bōñ* "be filled" *pōñ* "fill," *bar* "catch fire" *par* "set on fire," *blus* "collapse" *phlus* "knock down," Bahing *guk* "be bent" *kuk* "make bent," Bodo *geñ* "come loose" *kheñ* "loosen," Vayu *bok* "be born" *pok* "give birth to." Note also, in Tibetan, *GYE₁* (*ngye/gyes*) "be divided" alongside *GYE₂* (*ngyed/bgyes/bkye*) "divide," and *GAL₁* (*ngal/gal*) "be in opposition" alongside *GAL₂* (*ngel/bkal/dgal*) "put on, put over."

mdzod "treasury, storehouse." Note too such honorifics as *mtshed* "sibling" for *spun*, *mnal* "sleep" for *gnid*, *mtshan* "name" for *miñ*. Similarly, note such verbs as these, denoting relations between superiors and inferiors—*MÑAG* "commission, charge, delegate," *MTSHOD* "honor, revere," *MDŽAL* "meet a superior, pay one's respects," *MNOD* "receive from a superior"; or these, denoting the qualities of the lofty—*MKHO* "be desirable, important," *MTHO* "be lofty," *MTSHAR* "be wondrous," *MDZAÑS* "be noble," *MDZES* "be beautiful." And note such honorifics as *MKHYEN* "know" for *šES*, *MÑA* "possess" for *YOD*, *MÑEL* "become tired" for *ÑAI*, *MÑES* "be pleased" for *DGA*, *MNAB* "put on clothes" for *GON*, *MDZAD* "do" for *BYA*.

It is thus tempting to hypothesize the existence of a nonsyllabic formative *m-* "HONORIFIC," although the source of this formative is not at all clear. But the hypothesis is consistent with several word families—for example, *NGRO* "go" *ngros* "gait" *ngron-po* "guest" **m-gro-n* "HONORIFIC travel NOMINAL" > *mgron* "feast, banquet," *ñag* "speech" *SÑAG* "praise, extol" *sñags* "incantation" **m-ñag* "HONORIFIC speech" > *MÑAG* "commission, charge, delegate," *KHAR* "be penned up, be confined" *DGAR* "separate, confine, pen up" *ngar-po-mo* "type of cattle" *sgar* "camp, encampment" **m-khar* "HONORIFIC enclosure" > *mkhar* "castle, fort."

2.1.2.1.4. THE FORMATIVE *m-* "HUMAN BODY PART"

It has long been noted that a surprisingly large number of Tibetan words denoting parts of the human body begin with an *m-* prefix—for example, *mkhal-ma* "kidney," *mkhrig-pa* "wrist," *mkhris-pa* "bile," *mgal* "jaw," *mgo* "head," *mgul* "throat," *mgrün-pa* "neck," *mñal* "womb," *mtshan* "side of the breast," *mtshi-ma* "tears," *mtshin-pa* "liver," *mtshil-ma* "saliva," *mtshu* "lip," *mtsher-pa* "spleen," *mdžiñ-pa* "neck," *mdžug* "buttock," *mdže* "penis," *mthañ* "lower part of the body," *mthe-bo* "thumb," *mtho* "span of the hand," *mthoñga* "chest," *mduñs* "complexion," *mtshan* "genitals," *mtshul-pa* "lower part of the face," *mtshog-ma* "fontanelle," *mdzub-mo* "finger," *mdzer-pa* "wart." Note also *sdoms~mdoms* "pudenda," *ldan-pa~mdan-pa* "cheek," as well as *mthil* "bottom part" in *lag-mthil* "palm of the hand," *rkañ-mthil* "sole of the foot," *mthil-bži* "the four bottoms → palms and soles."

It can be conjectured that this preinitial *m-* is in fact a nonsyllabic formative *m-* < Proto-Tibetan **myi-* "HUMAN BODY PART," clearly related to—but not identical with—Proto-Tibetan **myi* "human being." For example, given Old

Chinese *syen “bitter,” Burmese *asañ*, Kanauri *śin*, Miri *ăśin*, Kachin *śin*, Lushei *thin* “liver,” we can hypothesize Proto-Tibetan *myi-tśin “HUMAN BODY PART liver” > *m-tśin > Old Tibetan *mtśhin-pa* “liver,” given Lushei *kal*, Tiddim Chin *kal*, Chepang *gal*, Kaire *khal* “kidney,” we can hypothesize Proto-Tibetan *myi-khal “HUMAN BODY PART kidney” > *m-khal > Old Tibetan *m̥khal-ma* “kidney,” and given Lepcha *kri* “bitter,” Kachin *khri* “acid, sour,” Burmese *khre* “bile,” Dimasa *khiri* “sour,” we can hypothesize Proto-Tibetan *myi-khris “HUMAN BODY PART bile” > *m-khris > Old Tibetan *m̥khris-pa* “bile.” Note how this human part formative functions in the context of the word family *KHRIG* “cohere, stick together” *GRIG* “correspond, fit together” *SGRIG* “put together” *m-khrig “HUMAN BODY PART joint” > *m̥khrig-pa* “wrist,” or the word family *GAL*₁ “be in opposition” *GAL*₂ “put on, put over” *RGAL* “dispute, contend” *m-gal “HUMAN BODY PART opposition” > *mgal* “jaw.”

2.1.2.1.5. THE FORMATIVE *s-* “ANIMAL”

A number of classical Tibetan words for animals begin with an *s-* preinitial—for example, *stag* “tiger,” *sdig-pa* “scorpion,” *sdom* “spider,” *spyan* “wolf,” *spra~spre* “monkey,” *sbal-pa* “frog,” *sbur-pa* “beetle,” *sbrañ-bu* “bee,” *sbrul* “snake,” *smig-bu* “lizard,” and perhaps also *sder-mo* “claw, talon,” *spar-ba* “paw, claw,” *spu* “hair, feather,” *shañs* “dung of a large animal.” This preinitial *s-* may in fact be a nonsyllabic formative *s-* < Proto-Tibetan *śa- “ANIMAL,” clearly related to but not identical with Proto-Tibetan *śa “animal,” *śwa “deer.” This ANIMAL PREFIX apparently dates back to Proto-Tibeto-Burman, since it is found throughout the Tibeto-Burman languages, although in different languages it may be prefixed to different words. For example, some of these language show an animal prefix where Tibetan has none: for example, we find Lushei *savom*, Lepcha *sətum*, Miri *situm*, but Tibetan *dom* “bear,” and, similarly, Lushei *sahña* but Tibetan *ña* “fish,” Lushei *sava* but Tibetan *bya* “bird.” Conversely, sometimes Tibetan shows an animal prefix where other Tibeto-Burman languages do not—for example, Thebor *brul*, Magari *bul*, Burmese *mrwe*, Mikir *phurul*, Lushei *rūl*, Tangkhul *phəra* “snake,” but Proto-Tibetan *śa-brul “ANIMAL snake” > *s-brul > Old Tibetan *sbrul* “snake,” Lushei *tīt*, Garo *-tik*, Lepcha *dik* “scorpion,” but Proto-Tibetan *śa-dik “ANIMAL scorpion” > *s-dig > Old Tibetan *sdig-pa* “scorpion,” Burmese *bha* “frog” but Proto-Tibetan *śa-bal “ANIMAL frog” > *s-bal > Old Tibetan *sbal-pa* “frog,” Mikir *teke* “tiger” but Proto-Tibetan *śa-tag “ANIMAL tiger” > *s-tag > Old Tibetan *stag* “tiger,” Burmese *bhañ*

"ordure" but Proto-Tibetan **śa-bañs* "ANIMAL ordure" > **s-bañs* > Old Tibetan *sbañs* "dung." Finally, we find the animal prefix in some cases both in Tibetan and elsewhere—for example, Miri *sibe*, Tibetan *spre* "monkey," Lushei *sakei*, Tibetan *stag* "tiger."

2.1.2.1.6. THE FORMATIVE *s-* "TRANSITIVE"

The nonsyllabic formative *s-* "TRANSITIVE" is found as a prefix in many transitive verbs that are clearly related, phonologically and semantically, to intransitive verbs without the prefix—for example, *GUL* "be agitated" *SGUL* "agitate," *GYUR* "change, become" *SGYUR* "cause to change, transmute, translate," *GYEL* "fall, tumble" *SGYEL* "throw down, overturn," *GRIG* "be right, be suitable" *SGRIG* "put in order," *GRIB* "grow dim, get dark" *SGRIB* "pollute, darken, obscure," *GRIL* "be twisted or wrapped around" *SGRIL* "wind or wrap around," *GRUB* "be finished, be made ready" *SGRUB* "finish, accomplish," *GRE* "roll on the ground" *SGRE* "roll," *GREÑ* "stand" *SGREÑ* "raise, erect," *GROG* "cry out" *SGROG* "publish, proclaim, promulgate," *GROL* "be liberated," *SGROL* "save, rescue," *ÑIL* "decay" *SÑIL* "destroy," *ÑUÑ* "be little" *SÑUÑ* "diminish, reduce," *DUM* "be reconciled" *SDUM* "reconcile, conciliate," *NUB* "sink, set" *SNUB* "suppress, abolish," *NUR* "move, change place" *SNUR* "remove, shift," *NOR* "err, be mistaken" *SNOR* "confuse, confound, mingle, mix," *BAG* "be polluted" *SBAG* "stain, defile," *BAÑ* "be soaked, macerated" *SBAÑ* "steep, soak," *BAR* "catch fire, burn" *SBAR* "light, kindle," *BUB* "be upside down" *SPUB* "invert," *BYAÑ* "be cleansed" *SBYAÑ* "cleanse," *BYAR* "adhere" *SBYAR* "fasten," *BYIÑ* "sink down" *SPYIÑ* "let down," *BREL* "cohere" *SBREL* "stitch together," *RIN* "be long" *SRIÑ* "stretch," *IAN* "rise" *SLAÑ* "raise," *LAD* "be weak, dull" *SLAD* "adulterate."

In addition, note such pairs as *KHUM* "shrink, contract oneself" *SKUM* "contract, draw in," *KHOR* "turn around, go about in a circle" *SKOR* "encircle, enclose, twist around," *KHOL* "be boiling" *SKOL* "bring to a boil," *KHYL* "be twisted, wind oneself" *SKYL* "bend, twist," *KHYUR* "be separated, divorced" *SKYUR* "throw away, cast out," *KIYO* "reel, stagger" *SKYOM* "shake, agitate," *THIM* "be absorbed, dissolve, evaporate" *STIM* "enter, pervade," *PHUR* "fly" *SPUR* "make fly, frighten away," *PHEL* "become greater" *SPEL* "make greater," *PHO* "change place" *SPO* "move, transfer," *PHYAÑ* "hang down" *SPYAÑ* "suspend," *PHRO* "proceed" *SPRO* "make disperse," *PHROD* "be delivered, be

transmitted" *SPROD* "bring together, introduce."¹³

2.1.2.1.7. THE FORMATIVE *-d* "NOMINAL"

The nonsyllabic formative *-d* "NOMINAL" is found in nouns derived from verbs—for example, *DRO* "become warm" *drod* "warmth," *NA* "be ill" *nad* "illness," *SÑE* "lean against" *sñed* "crupper," *MTSHI* "speak" *mtšid* "conversation." Often these derivatives are made into disyllabic stress groups by the addition of a pleonastic suffix—for example, *TSHI* "be hot" *tshad-pa* "heat," *LDŽI* "be heavy" *ldžid-pa* "weight," *RGA* "be old" *rgad-po* "old man," *RKE* "be lean" *rked-po* "waist," *LTA* "look" *ltad-mo* "sight, scene, spectacle," *BRO* "taste, smell, savor" *brod-pa* "joy," *RTSE* "play" *rtsed-mo* "game, sport, toy," *BLU* "redeem, ransom" *blud-po* "ransom payment," *ÑU* "weep" *ñud-mo* "sob," *GDU* "love" *gdud-pa* "longing, desire."¹⁴

2.1.2.1.8. THE FORMATIVE *-n* "NOMINAL"

The nonsyllabic formative *-n* "NOMINAL" is found in nouns derived from verbs—for example, *SKYO* "be weary, vexed" *skyon* "fault, harm, defect," *RGYU* "move, wander" *rgyun* "flow, current, stream," *GTŠI* "urinate" *gtšin* "urine," *ÑE* "be near" *ñen* "kinsman," *GD4* "be there" *gdan* "seat, position, abode," *RDZU* "give a deceptive representation" *rdzun* "falsehood," *Z4* "eat" *zan* "food." Often these derivatives are made into disyllabic stress groups by the addition of a pleonastic suffix—for example, *RKU* "rob, steal" *rkun-ma* "thief, theft," *SKYI* "borrow" *skyin-pa* "thing borrowed," *NGRO* "go" *ngron-po* "guest," *RÑA* "mow, cut, reap" *rñan-pa* "reward, hire, wages," *NDU* "come together, meet, assemble" *ndun-ma* "council, consultation, advice," *NDRE* "be mixed" *ndren-ma* "mixture," *NPHYO* "roam about, gambol" *nphyon-ma* "prostitute," *BŽO* "milk" *bžon-ma* "milk cow," *ŠU* "peel, strip off" *šun-pa* "the peel."

¹³ Note also *MÑAM* "be equal, level" *sñom* "make level, equalize," *MNAM* "stink" *snam* "smell," *NDRE* "be mixed" *sre* "mix."

¹⁴ Of course, the nominalizing formative *-d* must be distinguished from the present stem inflectional suffix *-D*. In a few cases we find noun doublets such as *rsa-ba~rsad* "root" and *du-ba~dud-pa* "smoke," where there are forms both with and without *-d*, but no obvious source verb. I do not know why this is so.

2.1.2.1.9. THE FORMATIVE -s "NOMINAL"

The nonsyllabic formative -s "NOMINAL" is found in nouns derived from verbs—for example, *SKYAB* "protect" *skyabs* "protection," *SKYEM* "be thirsty" *skyems* "beverage, beer, libation," *KHRU* "bathe" *khrus* "bath," *GRĀN* "count" *grāns* "number," *NGRO* "go" *ngros* "motion, travel," *RDŽE* "change, shift" *rdžes* "track, trace," *LTA* "look" *ltas* "omen, sign, prodigy," *NDOM* "come together" *ndoms* "genitals," *SPU* "decorate" *spus* "beauty," *SPO* "change, shift" *spos* "incense," *PHYUG* "be rich" *phyugs* "cattle," *NBO* "swell up" *nbos* "boil, tumor, swelling," *SBUG* "pierce" *sbugs* "hole," *RTSI* "count, calculate" *rtsis* "counting, numeration, astrology," *RDZON* "dismiss, expedite" *rdzoñs* "act of escorting, fee for safe conduct, dowry," *GŽA* "make jokes, play games" *gžas* "joke, game," *ZĀ* "eat" *zas* "food," *ZAB* "be deep" *zabs* "depth," *LOG* "return, turn around" *logs* "side, direction, region," *ŠOÑ* "remove, empty, carry away" *šoñs* "pit, excavation, valley," *BŠO* "pour out" *bšos* "food offering to the gods," *SRUB* "stir, rake, rub" *srubs* "cleft, slit, rent, wound," *SLOB* "learn, teach" *slobs* "exercise, practice, experience."¹⁵

There is some reason to believe that this derivational -s is the remains of an earlier Proto-Tibetan *-sa "PLACE." The following derivations, for example, are not implausible—*NAG* "be black" *nag-sa "dark place" > *nags* "forest," *ZAB* "be deep" *zab-sa "deep place" > *zabs* "depth," *NBO* "swell" *nbo-sa "swelling place" > *nbos* "boil, tumor," *LTA* "look" *lta-sa "looking place" > *ltas* "omen, sign," *ŠOÑ* "excavate" *šoñ-sa "excavating place" > *šoñs* "excavation."¹⁶ Such a derivation is less plausible—but certainly still possible

¹⁵ Note also *RGA* "be old" *rgas-ka* "old age," *NDRE* "be mixed" *ndres-ma* "mixture, medley," *BTSA* "bear, bring forth" *btas-ma* "harvest," *RDZU* "give a deceptive representation" *rdzus-ma* "something counterfeit, feigned, dissembled," *LHE* "twist, plait, braid" *lhes-ma* "braid, wickerwork, twisted pastry." These derivations should be distinguished from the nominalization with -pa of past tense stems which have an inflectional suffix -s, a process which continued to be productive in the classical language—for example, *SKYE* "be born" *skyes-pa* "man, male person," *GRAG* "cry, shout" *grags-pa* "fame," *TSHIB* "mount, ride" *tshibs-pa* "horse," *SPRO* "go out, spread, incline toward" *spros-pa* "business, activity."

¹⁶ There are a few examples where this Proto-Tibetan *-sa "PLACE" > -s appears to derive nouns from nouns as well—thus *khuñ* "hole, pit, cavity" *khuñ-sa "hole place" > *khuñs* "mine," *khoñ* "the inside" *khoñ-sa "inside place" > *khoñs* "middle, midst," *ño* "face" *ño-sa "face place" > *ño* "side, direction, surface," *dbu* "head" *dbu-sa "head place" > *dbus* "middle." The words *phyogs* "side, direction" and *logs* "side, direction" are sufficiently similar to each other in meaning, and to *phyag* "hand" and *lag* "hand" in phonetic shape,

—where the derived noun stands to the source verb as something other than a patient, as in *SKYEM* “be thirsty” *skyems* “beer” or *PHYUG* “be rich” *phyugs* “cattle.”; and some of these derivations appear simply idiosyncratic, such as *SPO* “change, shift” *spos* “incense.”

2.1.2.1.10. THE FORMATIVE *s-d~s-n* “KINSHIP COLLECTIVE”

The nonsyllabic formative *s-d* or *s-n* “KINSHIP COLLECTIVE” is found in a very few words denoting kinship groups, where its function is apparently to expand the range of reference of the source noun—for example, *pha* “father” *phaspad* “father and children,” *ma* “mother” *ma-smad* “mother and children,” *phu* “elder brother” *spun* “siblings” *span-spun* “brothers, relatives,” *khu* “uncle” *skud-po* “brother-in-law, father-in-law,” *tsha* “grandchild, nephew” *khu-tshan* “uncle and nephew.”

2.1.2.2. Outer derivation

2.1.2.2.1. SYLLABIC FORMATIVES

2.1.2.2.1.1. THE FORMATIVE *-nid* “-NESS”

The syllabic formative *-nid* “-NESS” is suffixed to adjectives to yield abstract nouns—for example, *sla-ba* “easy” *sla-ba-nid* “easiness,” *dka-ba* “difficult” *dka-ba-nid* “difficulty,” *sra-ba* “hard” *sra-ba-nid* “hardness,” *nag-pa* “black” *nag-pa-nid* “blackness,” *tsha-ba* “hot” *tsha-ba-nid* “heat,” *bzañ-ba* “good” *bzañ-ba-nid* “goodness.” Such forms are primarily metaphysical in connotation: *sra-ba-nid* “hardness,” for example, is a term for a quality characteristic of all material substance. Similarly, *bzañ-ba-nid* “goodness” refers to goodness considered in the abstract; goodness considered as a matter of degree would be expressed by the ADJECTIVE + ADJECTIVE → NOUN compound *bzañ-nan* “good bad → virtue.”

The formative *-nid* “-NESS” is thus primarily productive in the area of Buddhist philosophical abstraction. We find *stoñ-pa* “empty” *stoñ-pa-nid* “emptiness,” *ñes-pa* “certain” *ñes-pa-nid* “reality,” *de-bzin* “such” *de-bzin-nid*

to suggest the derivation *phyag/lag* “hand” > **phyog-/log-sa* “hand place” > *phyogs/logs* “side, direction.”

"suchness," *mñam-pa* "alike" *mñam-pa-ñid* "sameness." In this semantic field as well, such philosophical abstractions can also be derived from nouns—*mtshan* "sign" *mtshan-ñid* "defining mark," *ño-bo* "thing" *ño-bo-ñid* "nature," *sañs-rgyas* "Buddha" *sañs-rgyas-ñid* "Buddhahood."

2.1.2.2.1.2. THE FORMATIVE -pa "PERSON HAVING TO DO WITH"

The syllabic formative *-pa* "PERSON HAVING TO DO WITH"—which must be clearly distinguished from the nominalizer *-Pa*—is extremely productive in classical Tibetan, and it is suffixed to nominals of all types to yield new nouns. Thus we find *mda* "arrow" *mda-pa* "archer," *žin* "field" *žin-pa* "farmer," *ra* "horse" *ra-pa* "horseman," *sman* "medicine" *sman-pa* "doctor," *tshu* "water" *tshu-pa* "water carrier," *gar* "dance" *gar-pa* "dancer," *khyim* "house" *khyim-pa* "householder," *grwa* "school" *grwa-pa* "scholar," *ral-nbyor* "yoga" *ral-nbyor-pa* "yogin," *ka-kha* "ABC" *ka-kha-pa* "schoolchild," *lha-sa* "Lhasa City" *lha-sa-pa* "resident of Lhasa City," *bod* "Tibet" *bod-pa* "Tibetan," *ri-bo* "mountain" *ri-bo-pa* "highlander," *dpyod-pa* "examination" *dpyod-pa-pa* "examiner." Similarly, we find *-pa* suffixed to adjectives, as in *gišer-bu* "naked" *gišer-bu-pa* "naked ascetic," and to complex nominals, as in *las dañ-po* "first work → beginning" *las-dañ-po-pa* "beginner," *rkañ gñis* "two feet" *rkañ-gñis-pa* "biped," *bye-brag-tu smra-ba* "vibhāsa" *bye-brag-tu smra-ba-pa* "Vaibhāṣika."

2.1.2.2.1.3. THE FORMATIVE -mkhan "SKILLED IN"

The form *-mkhan* "SKILLED IN" appears in several collocations after nouns—for example, *sa* "country" *sa-mkhan* "guide," *lam* "path" *lam-mkhan* "guide," *śin* "wood" *śin-mkhan* "carpenter," *gar* "dance" *gar-mkhan* "dancer," *gžu* "bow" *gžu-mkhan* "bowmaker," *bzo* "handicraft" *bzo-mkhan* artisan." The form *-mkhan* is clearly related to a number of lexical items with similar meanings: note *MKHYEN* "know," *mkhan-po* "scholar, abbot," *mkhas-pa* "knowledgeable," *mkhas-po* "learned person." It is not clear to me, however, whether *-mkhan* is better described as a syllabic formative—that is, a form that is not itself a word, although perhaps etymologically related to a word, such as *mkhan-po* "scholar, abbot"—or instead as a clipped word functioning as the second member of a compound. No matters of great moment.

this distinction; but the problem is offered here to illustrate the insistent intractability of language.¹⁷

2.1.2.2.1.4. THE FORMATIVE -PHO-Tshe "BIG KIND OF"

The disyllabic formative *-pho-tshe* "BIG KIND OF" is commonly suffixed to nouns to yield new nouns with an intensive or emphatic sense. Thus we find *skad* "voice" *skad-po-tshe* "loud voice," *ma* "nose" *ma-bo-tshe* "big nose," *me* "fire" *me-bo-tshe* "conflagration," *od* "light" *od-po-tshe* "brilliance," *phal* "common people" *phal-po-tshe* "crowd," *sdig* "sin" *sdig-po-tshe* "vile sinner," *glañ* "ox" *glañ-po-tshe* "elephant," *rta* "horse" *rta-bo-tshe* "divine horse," *mthu* "power" *mthu-bo-tshe* "mighty power," *rin* "value" *rin-po-tshe* "jewel."

2.1.2.2.1.5. THE FORMATIVE -tšan "POSSESSING"

The syllabic formative *-tšan* "POSSESSING" is suffixed to nouns to create adjectives. This formative is very productive in the classical language, as in *gram-pa* "swamp" *gram-pa-tšan* "swampy," *gañs* "snow" *gañs-tšan* "snowy," *tsher-ma* "thorn" *tsher-ma-tšan* "thorny," *nor* "wealth" *nor-tšan* "wealthy," *spod* "spice" *spod-tšan* "spicy," *mag* "pus" *mag-tšan* "purulent," *sgra* "sound" *sgra-tšan* "sonorous," *rin* "value" *rin-tšan* "valuable," *gdug-pa* "poison" *gdug-pa-tšan* "poisonous," *ngyur-ba* "change" *ngyur-ba-tšan* "mutable," *ñar* "hardness" *ñar-tšan* "tempered," *ldžid* "weight" *ldžid-tšan* "heavy," *khyad* "difference" *khyad-tšan* "special," *khrel* "modesty" *khrel-tšan* "modest," *gros* "advice" *gros-tšan* "cautious," *sdig* "sia" *sdig-tšan* "sinful," *las* "work" *las-tšan* "industrious," *stobs* "strength" *stobs-tšan* "strong," *dbañ* "power" *dbañ-tšan* "powerful," *rtsed-mo* "play" *rtsed-mo-tšan* "merry," *srog* "life" *srog-tšan* "living," *sems* "mind" *sems-tšan* "sentient," *lus* "body" *lus-tšan* "embodied," *blo-gros* "intellect" *blo-gros-tšan* "judicious," *dge-ba* "virtue" *dge-ba-tšan* "virtuous," *ña-rgyal* "pride" *ña-rgyal-tšan* "proud," *miñ* "name" *miñ-tšan* "famous," *rtsi* "sap" *rtsi-tšan* "viscid."

¹⁷ Compare words that similarly end with *-bdag*—for example, *khoñ-bdag* "master of the house," *sa-bdag* "master of the earth → local deity," *gži-bdag* "master of the soil → local deity," *shyin-bdag* "master of gifts → patron," *mñā-bdag* "master of dominion → ruler," *miñ-bdag* "master of men → king." Such words are readily conceived to be compounds with the clipped second member *bdag-po* "master." It is harder, I believe, to see, say, *ñiñ-mkhan* "carpenter" derived in the same straightforward way from *mkhan-po* "scholar, abbot."

We must distinguish constructions using this FORMATIVE *-tšan* “POSSESSING” from clipped relative constructions with the VERBS *LDAN* “be endowed” and *BTŠAS* “be accompanied,” which bear a surface similarity. Both verbs occur with patient and accompaniment participants—for example, *sañ-s-rgyas-yon-tan-dāñ ldan* “The Buddha is endowed with excellence,” *rgyal-po nkhor-dāñ bišas* “The king is accompanied by his retinue.” Relativized forms of these verbs are often found modifying nouns, as in *rgyal-mo bu-dañ ldan-pa* “the queen with a child,” *bla-ma rig-pa-dañ ldan-pa* “a lama possessed of wisdom,” *rgyal-po ral-gri-dāñ btšas-pa* “the king with his sword,” *dge-sloñ glegs-bam-dāñ btšas-pa* “the monk who has the books.” Such collocations are particularly liable to be clipped. Thus we find *mdog* “color” and both *mdog-tšan* and *mdog-ldan* < *mdog-dāñ ldan-pa* “colored,” *gnod* “harm” and both *gnod-tšan* and *gnod-bišas* < *gnod-dāñ btšas-pa* “harmful,” *sdig* “sin” and both *sdig-tšan* and *sdig-bišas* < *sdig-dāñ btšas-pa* “sinful,” *nor* “wealth” and both *nor-tšan* and *nor-bišas* < *nor-dāñ btšas-pa* “wealthy.”

2.1.2.2.1.6. THE FORMATIVE -yas “-LESS”

The syllabic formative *-yas* “-LESS” is suffixed to nouns to create adjectives with a privative meaning. It is, in this sense, the semantic opposite of the syllable formative *-tšan* “POSSESSING,” but its scope is much more restricted. The formative *-yas* “-LESS” is found only with nouns denoting extent—thus, for example, *bgrañ* “number” *bgrañ-yas* “numberless,” *mtha* “end, border, limit” *mtha-yas* “endless,” *dpag* “measure” *dpag-yas* “measureless,” *gžal* “weight, measure” *gžal-yas* “infinite.”

2.1.2.2.1.7. THE FORMATIVE -bu~~-u “DIMINUTIVE”

Another productive syllabic formative is *-bu~~-u* “DIMINUTIVE”—clearly related to but not identical with the noun *bu* “child”—suffixed to nouns to yield new nouns. The form *-bu* is suffixed to syllables with consonant finals—for example, *zañs* “kettle” *zañs-bu* “pot,” *glegs* “table” *glegs-bu* “tablet,” *khuñ* “hole” *khuñ-bu* “pore,” *gzer* “nail” *gzer ju* “tack,” *zor* “sickle” *zor-bu* “chopper,” *phad* “sack” *phad-bu* “handbag,” *glañ* “ox” *glañ-bu* “calf,” *dom* “bear” *dom-bu* “bear cub,” *sīñ* “wood” *sīñ-bu* “piece of wood,” *nor* “wealth” *nor-bu* “gem.” In disyllables the formative *-bu* replaces unstressed *-pa* and *-PHO*—thus *khañ-pa* “house” *khañ-bu* “cottage,” *sdoñ-po* “tree trunk” *sdoñ-bu*

"stick," *bum-pa* "jar" *bum-bu* "small waterpot," *tshag-pa* "bunch of flowers" *tshag-bu* "small bunch of flowers."

After a preceding open syllable we find the form *-u*, and in such cases too the preceding low back vowels *a* and *o* become the low front vowel *e*—thus *rna* "drum" *r̄neu* "small drum," *mda* "arrow" *mdeu* "arrowhead," *ba* "cow" *beu* "calf," *ra* "goat" *reu* "kid," *rta* "horse" *r̄teu* "foal," *bya* "bird" *byeu* "little bird," *ñia* "fish" *ñeu* "small fish," *so* "tooth" *seu* "small tooth," *mtscho* "lake" *mtsheu* "pond," *khyo* "man" *khyeu* "youth," *rdo* "stone" *rdeu* "pebble," *sgo* "door" *sgeu* "little door," *mtho* "hammer" *mtheu* "little hammer." Front vowels are unaffected by a following *-u*—thus *mi* "man" *miu* "dwarf," *khyi* "dog" *khyiu* "puppy," *dre* "mule" *drew* "young mule," *rdže* "lord" *rdžeu* "princeling."

In many cases the *-u* form has been generalized to replace the form *-bu* after consonants as well as vowels, with frequent variation in spelling—for example, *pag* "brick" *pag-bu-pag-gu* "brick," *gzer* "nail" *gzer-bu-gze-ru* "tack," *gdub* "bracelet" *gdub-bu-gdu-bu* "bracelet," *ril-po* "globule" *ril-bu-ri-lu* "pill," *thig* "cord" *thig-gu-thi-gu* "string," *phrug* "child" *phrug-gu-phru-gu* "child," *lug* "sheep" *lug-gu-lu-gu* "lamb," *dbyug-pa* "stick" *dbyug-gu-dbyu-gu* "wand," *smyug-ma* "bamboo" *smyug-gu-smyu-gu* "reed pen."

2.1.2.2.1.8. SEX FORMATIVES

2.1.2.2.1.8.1. The formatives *-mo* "FEMALE" and *-pho* "MALE"

Several syllabic formatives in the classical language function to specify the sex of nominals with animate referents. Many Tibetan animate nouns are unmarked for sex: they refer vaguely to beings of either sex. Where there is a need to specify the sex of the referent, the sex formatives *-mo* "FEMALE" and *-pho* "MALE" yield nouns with this additional information. Thus we find *bran* "servant" but *bran-mo* "maidservant" *bran-pho* "manservant," *ndre* "demon" but *ndre-mo* "female demon" *ndre-pho* "male demon," *ša* "deer" but *ša-mo* "doe" *ša-pho* "buck," *ra* "goat" but *ra-mo* "nanny goat" *ra-pho* "billy goat," *bya* "bird" but *bya-mo* "hen" *bya-pho* "cock," *lug* "sheep" but *lug-mo* "ewe" *lug-pho* "ram," *rta* "horse" but *rta-mo* "mare" *rta-pho* "stallion,"

khyi "dog" but *khyi-mo* "bitch" *khyi-pho* "male dog," *dre* "mule" but *dre-mo* "jenny" *dre-pho* "male mule."

2.1.2.2.1.8.2. Animal sex formatives

Nouns referring to animals form several interesting lexical fields in Tibetan. Unmarked and sex-marked animate nouns combine with their respective diminutives to constitute the following semantic array:

	UNMARKED	FEMALE	MALE	YOUNG
"horse"	<i>rta</i>	<i>rta-mo</i>	<i>rta-pho</i>	<i>rtetu</i>
"deer"	<i>śa</i>	<i>śa-mo</i>	<i>śa-pho</i>	<i>śeū</i>
"goat"	<i>ra</i>	<i>ra-mo</i>	<i>ra-pho</i>	<i>reū</i>
"dog"	<i>khyi</i>	<i>khyi-mo</i>	<i>khyi-pho</i>	<i>khyiu</i>
"bird"	<i>bya</i>	<i>bya-mo</i>	<i>bya-pho</i>	<i>byeu</i>
"mule"	<i>dre</i>	<i>dre-mo</i>	<i>dre-pho</i>	<i>dreū</i>
"sheep"	<i>lug</i>	<i>lug-mo</i>	<i>lug-pho</i>	<i>lug-gu</i>

Moreover, a further distinction of sex is often drawn between castrated and uncastrated domestic animals, where the uncastrated form is marked with the syllabic formative *pha-* "UNCASTRATED" and the castrated form is either unmarked or marked with the syllabic formative *pho-* "CASTRATED." Thus we find *glañ* "ox" *pha-glañ* "bull," *ra-pho* "goat" *pha-ra* "buck goat," *pho-rta* " gelding" *pha-rta* "stallion," *pho-phag* "gilded boar" *pha-phag* "boar," *pho-gyag* "gilded yak" *pha-gyag* "bull yak." Note the resulting distribution of terms—*rta* "horse (male or female)," *rta-pho* "male horse (gilded or ungilded)," *pho-rta* "gilded horse," *pha-rta* "stallion."

The females of such domestic animals often have nonderived names (thus *ba* "cow" rather than *?glañ-mo*, *nbri-mo* "female yak" rather than *?g.yag-ma*, and *rgod-ma* "mare" alongside *rta-mo*), or names derived with the syllabic formative *mo-* "DOMESTIC FEMALE" in parallel with *pho-* "CASTRATED." Again note the distribution of terms—*rta* "horse (male or female)," *rta-mo* "female horse (wild or domestic)," *mo-rta* "domestic female horse." Note too that we therefore find *stag-mo* "tigress" but not *?mo-stag* and *señ-ge-mo* "lioness" but not *?mo-señ-ge*. Domestic animals thus constitute a lexical field much like the following:

	UNCASTRATED	CASTRATED	FEMALE
"ox"	<i>pha-glañ</i>	<i>glañ</i>	<i>ba</i>
"yak"	<i>pha-g.yag</i>	<i>pho-g.yag</i>	<i>nbri-mo</i>
"goat"	<i>pha-ra</i>	<i>ra-pho</i>	<i>ra-mo</i>
"horse"	<i>pha-rtा</i>	<i>pho-rtा</i>	<i>mo-rtा</i>
"pig"	<i>pha-phag</i>	<i>pho-phag</i>	<i>mo-phag</i>

2.1.2.2.1.8.3. The formatives *-mo* and *-ma* "FEMALE"

Many other Tibetan animate nouns—and generally all nominals with human referents—refer vaguely both to males and to beings of either sex. Where there is a need to specify the referent as female the syllabic formatives *-mo* "FEMALE" and *-ma* "FEMALE" yield nouns with the additional information. A source nominal that ends in *-pa* or *-pa* will generally derive its sex-marked form with *-ma*, one that ends in *-PHO* will generally derive its sex-marked form with *-mo*, and one that ends in neither will idiosyncratically select one formative or the other, although there appears to be some tendency for native Tibetan words to select *-mo* and for borrowed expressions and neologisms to select *-ma*.

In this last case we find the sex formative *-mo* selected in such nominals as *mi* "human being, man" *mi-mo* "woman," *lha* "deity, god" *lha-mo* "goddess," *bu* "child, son" *bu-mo* "daughter," *rdže* "noble person, lord" *rdže-mo* "lady," *klu* "serpent deity, serpent god" *klu-mo* "serpent goddess," *gnod-sbyin* "demon, male demon" *gnod-sbyin-mo* "female demon," *pho-ña* "messenger, male messenger" *pho-ña-mo* "female messenger," *stag* "tiger, male tiger" *stag-mo* "tigress," *grul-bum* "ghoul, male ghoul" *grul-bum-mo* "female ghoul," and we find the sex formative *-ma* selected in such nominals as *dge-sloñ* "cenobite, monk" *dge-sloñ-ma* "nun," *rdže-btsun* "reverend person, reverend sir" *rdže-btsun-ma* "reverend madam," *dbañ-phyug* "mighty one, lord" *dbañ-phyug-ma* "lady," *mkha-n gro* "celestial spirit, dāka" *mkha-n gro-ma* "dākinī," *gzon-nu* "young person, youth" *gzon-nu-ma* "maid."

Among nominals whose unmarked forms end in *-pa* or *-pa* we find *bod-pa* "Tibetan, male Tibetan" *bod-ma* "female Tibetan," *gar-pa* "dancer, male dancer" *gar-ma* "female dancer," *tshos-pa* "religious person, monk" *tshos-ma* "nun," *mal-nbyor-pa* "practitioner of yoga, yogin" *mal-nbyor-ma* "yoginī," *lo-gñis-pa* "two-year-old, two-year-old boy" *lo-gñis-ma* "two-year-old girl," *nphags-*

pa "noble person, nobleman" *nphags-ma* "noblewoman," *nphrog-pa* "thief, male thief" *nphrog-ma* "female thief," *nor-ldan-pa* "rich person, rich man" *nor-ldan-ma* "rich woman," *so-sor nbrañ-pa* "follower, male devotee" *so-sor nbrañ-ma* "female devotee."

Among nominals whose unmarked forms end in *-PHO* we find *tsha-bo* "grandchild, grandson" *tsha-mo* "granddaughter," *g.yog-po* "servant, manservant" *g.yog-mo* "maidservant," *grogs-po* "friend, male friend" *grogs-mo* "female friend," *rgyal-po* "royalty, king" *rgyal-mo* "queen," *glañ-po* "elephant, male elephant" *glañ-mo* "female elephant," *ngoñ-po* "demon, male demon" *ngoñ-mo* "female demon," *dbañ-po* "sovereign, male sovereign" *dbañ-mo* "female sovereign," *gtso-bo* "chief, first lord" *gtso-mo* "first lady," *tshen-po* "great one, great man" *tshen-mo* "great lady," *dkar-po* "white one, white male" *dkar-mo* "white female."

2.1.2.2.1.8.4. Names

In some cases too the formatives *-mo* "FEMALE" or *-ma* "FEMALE" may replace the *-PHO* or *-Pa* or *-pa* suffix of some nominals to yield nouns denoting a special kind or particular example of the class denoted by the source nominal—a specification of the sort often rendered in English by initial capitalization. Thus we find *rñiñ-pa* "old" but *rñiñ-ma* "Old Sect," *gsar-pa* "new" but *gsar-ma* "New Sect," *dbus* "middle" but *dbu-ma* "Madhyamaka School," *gter* "treasure" but *gter-ma* "Hidden Text," *bka* "sacred teaching" but *bka-ma* "the Teaching of the Old Sect," *gtum-po* "heat" but *gtum-mo* "Mystic Heat," *tshad* "measure" but *tshad-ma* "Science of Logic." Thus too *zañs ru-bži* "four-handled pot" refers to any such pot; but *zañs ru-bži-ma* refers to a specific design of four-handled pot, or even to a specific pot, perhaps noted for its design or workmanship.

The same specificity may be seen in book titles: the term *rgyud-ngral tshen-po* "great tantric commentary" denotes any such work, but the term *rgyud-ngral tshen-mo* refers specifically to a particular tantric commentary, the *Vimalaprabhā* commentary on the *Kälacakratantra*. Similarly, *lam-rim tshen-po* "great sequential teaching" could refer to any such teaching, but the term *lam-rim tshen-mo* refers specifically to the *Rim-pa thams-tshad tshañ-bar ston-pai byañ-tshub lam-gyi rim-pa* by Tsöñ-kha-pa. Again, *leu bdun-ma* "the seven chapters" refers to the seven-chapter hidden text of Padmasambhava, the term *yi-ge drug-ma* "the six syllables" refers to the six-syllable mantra of

Avalokiteśvara, and the term *śar gañs-ri-ma* “the eastern snow mountain” refers to a poem by the first Dalai Lama Dge-ndun-grub, which begins with the line *śar gañs-ri dkar-poi rtse-mo-na* “On the peak of the white eastern snow mountain . . .” And, although *blo-sbyoñ don-bdun* “seven points of mind training” could refer to any such set of teachings, *blo-sbyoñ don-bdun-ma* refers to the specific technique said to have been taught in Tibet by Atīśa around the year 1050.

2.1.2.2.1.8.5. Geography

To the Tibetans, both mountains and plains apparently tend to be feminine. In the archaic manuscripts from Central Asia we find mention of such *thañ* “plains” as *mon-mo thañ*, *bal-mo thañ*, *lho-mo thañ*, *rgya-mo thañ*, *rgyal-mo thañ*, and *dbyar-mo thañ*—this last, for example, presumably the same as the *g.yer-mo-g.yar-mo-yar-mo thañ* of modern travelers, and presumably the same as the *dbyar-mo thañ* mentioned on the Potala pillar inscription of 764, recounting the Tibetan victories over the Chinese. Note *lho-mo thañ* “southern plain” < *lho* “south,” *bal-mo thañ* “Nepalese plain” < *bal-yul* “Nepal,” *rgya-mo thañ* “Chinese plain” < *rgya-nag* “China,” and *mon-mo thañ* “Mon Plain,” < *mon* “people living between Tibet and India, including Assam, Bhutan, and Lahul,” where it seems reasonable to view the *-mo* suffix as a proper name marker, as in the preceding section. Moreover, whatever Freud might say, mountains seem indisputably feminine, and are called *?a-ne* “aunt” or *džo-mo* “lady,” as in the mountain names *džo-mo kha-nag* “Lady Black-mouth” or *džo-mo lha-ri* “Lady God-mountain.”

2.1.2.2.1.9. THE FORMATIVE *-PHO* “ADJECTIVE/AGENT”

One of the primary functions of the formative *-PHO* is the derivation of adjectives from stative verbs. We find *DKA* “be difficult” *dka-bo* “difficult,” *DKAR* “be white” *dkar-po* “white,” *SKYID* “be happy” *skyid-po* “happy,” *NDZER* “be hoarse” *ndzer-po* “hoarse,” *MTHUN* “be in agreement” *mthun-po* “affable,” *RTSUB* “be rough” *rsub-po* “rough,” *MOD* “be abundant” *mod-po* “plentiful,” *MAÑ* “be many” *mañ-po* “many,” *BTSAN* “be strong” *btsan-po* “powerful,” *RTAG* “be permanent” *rtag-po* “lasting,” *DGA* “be happy” *dga-bo* “happy,” *DRAGS* “be intense” *drags-po* “violent,” *DGU* “be bent” *dgu-po* “crooked.” Verb roots which do not have a final consonant very often take an additional *-n* suffix before the syllabic formative—thus *TŠHE* “be great” *tšen-po* “great,” *DMA* “be

low" *dman-po* "low," *MTHO* "be high" *mthon-po* "high," *RGA* "be old" *rgan-po* "old," *RNO* "be sharp" *mon-po* "sharp," *sÑO* "become green" *sñon-po* "blue."

Such derivatives occasionally and idiosyncratically select the formative *-mo* instead of *-PHO*—thus *SKYO* "be weary" *skyo-mo* "weary," *SGRE* "be naked" *sgren-mo* "naked," *ŽU* "melt" *žun-mo* "molten," *DRO* "be warm" *dron-mo* "warm," as well as *dga-mo* "happy" alongside *dga-bo*, *dgu-mo* "crooked" alongside *dgu-bo*, *sñon-mo* "blue" alongside *sñon-po*. Such forms, of course, are not marked for sex; they must be distinguished from such sex-marked forms as *rgan-po* "old" *rgan-mo* "old woman," *tshen-po* "great" *tshen-mo* "great lady," *dkar-po* "white" *dkar-mo* "white lady." Note, too, that there seems to be no principle by which open syllables select the suffix *-n*. We find *DGA* "be happy" *dga-bo* "happy" but *DMA* "be low" *dman-po* "low," and we find such doublets as *TSHA* "be hot" *tsha-mo*—*tshan-mo* "hot," *sÑI* "be soft" *sñi-bo*—*sñi-mo*—*sñin-po* "soft."

The derivation of adjectives in *-PHO* had largely ceased to be productive by the time of Old Tibetan; the vast majority of adjectives in the classical texts are derived instead from verbs nominalized with *-Pa* and used in relative constructions. We may thus note a continuing tendency in the classical language to supplement older adjectives in *-PHO* with adjectives in *-Pa* derived from the same verbs. Thus we find such doublets as *dka-bo*—*dka-ba* "difficult," *skyid-po*—*skyid-pa* "happy," *rtag-po*—*rtag-pa* "lasting," *dga-bo*—*dga-ba* "happy," *sra-bo*—*sra-ba* "hard," *mihun-po*—*mthun-pa* "affable," *gsar-po*—*gsar-ba* "new," *bzañ-po*—*bzañ-ba* "virtuous," *gtum-po*—*gtum-pa* "furious." Certain common adjectives in *-PHO* remained largely in their earlier forms—*tshen-po* "great," *mañ-po* "many," *dkar-po* "white," *dmar-po* "red," and so on. The change from *-PHO* to *-Pa* was also blocked where the source verb had meanwhile been lost from the language, as with *dam-po* "tight" from a lost verb **DAM* "*be bound" (compare *SDAM* "bind"), or where the source verb was, unusually, transitive rather than stative, as with *DRAÑ* "pull" *drañ-po* "straight."¹⁸

The formative *-PHO* also occurs in the derivation of nouns with animate or human referents from inanimate and frequently abstract nouns. These source

¹⁸ In a few cases, the newer form in *-Pa* was lexicalized with the older suffix *-n* intact—thus *SMYO* "be crazy" *smyon-pa* "crazy," *RMA* "be wounded" *rman-pa* "wounded." In such cases too apparently the older forms—such as **smyon-po* and **rman-po*—have been entirely replaced.

nouns may themselves be either primary or derived. In the first case we find such examples as *gnas* "place, abode, dwelling" *gnas-po* "host, landlord, head of house," *blon* "advice, counsel" *blon-po* "minister, counselor," *mgron* "feast, banquet" *mgron-po* "guest," *bon* "Tibetan religion" *bon-po* "follower of Tibetan religion," *dpa* "bravery, strength" *dpa-bo* "hero, *dbañ*" "power, might" *dbañ-po* "lord, ruler, sovereign," *bzo* "work, craft" *bzo-bo* "craftsman, artisan," *mihu* "power, strength" *thu-bo* "chief, elder brother." In the second case the source noun is a nominalized verb—for example, *SBYIN* "give" *sbyin-pa* "gift" *sbyin-pa-po* "donor, patron," *SGRUB* "perform, achieve" *sgrub-pa* "meditation" *sgrub-pa-po* "meditator," *SGROL* "save" *sgrol-ba* "salvation" *sgrol-ba-po* "savior," *SAD* "kill" *gsod-pa* "murder" *gsod-pa-po* "murderer."¹⁹ Note also *NU* "suck" *nu-ba-po* "suckling," *GSO* "heal" *gso-ba-pa* "physician," *DŽO* "milk" *ndžo-ba-po* "cowherd."

The formative *-PHO* is also found in similar animate and human nouns derived directly from verb stems—for example, *RGYAL* "be victorious" *rgyal-po* "king," *SKYAR* "repeat, recite by heart" *skyar-po* "snipe, woodcock, duck," *SKYE* "be born" *skye-bo* "person, human being," *BTSUN* "be noble" *btsun-po* "nobleman," *BYUÑ* "arise, emerge, come out" *nbyuñ-po* "being, creature, evil spirit," *LOR* "be blind" *loñ-po* "blind person," *NU* "suck" *nu-bo* "man's younger brother."²⁰

2.1.2.2.1.10. THE FORMATIVE *-sa* "PLACE WHERE"

The syllabic formative *-sa* "PLACE WHERE"—clearly related to but not identical with the noun *sa* "place"—is suffixed to verb stems to yield nouns. For example, we find *NDA* "pass over" *nda-sa* "place where an archer stands to shoot in a contest," *SKAM* "be dry" *skam-sa* "shore," *NTSHER* "be afraid" *ntscher-sa* "deserted village," *GOL* "part, separate" *ngol-sa* "place where two

¹⁹ Such derivations are common in Buddhist psychology and philosophy—for example, *SES* "know" *jes-pa* "knowledge" *jes-pa-po* "knower," *TSHOR* "perceive" *tshor-ba* "sensation" *tshor-ba-po* "perceiver," *BYA* "do" *byed-pa* "action" *byed-pa-po* "agent," *MTHOÑ* "see" *mthoñ-ba-po* "subject of the act of seeing," *NGRO* "go" *ngro-ba-po* "goer."

²⁰ In a few cases we find nouns in *-PHO* and *-mo* with nonanimate or abstract referents apparently derived from verbs and concrete as well as abstract nouns—for example, *śññ* "heart" *śññ-po* "main part, essence," *dños* "quality" *dños-po* "thing, natural body, substance, stuff," *ROL* "enjoy sensually" *rol-mo* "music," *KHEÑS* "be full" *kheñs-po* "food producing flatulence."

roads separate," *NDU* "meet, come together" *ndus-sa* "meeting place," *NGRIM* "wander" *ngrim-sa* "abode," *BROS* "flee," *nbros-sa* "place of refuge," *SPO* "change place" *spo-sa* "nomad camp," *THAR* "be saved" *thar-sa* "sanctuary," *RE* "hope" *re-sa* "that whereon the hopes are set," *NDUG* "remain" *ndug-sa* "residence," *NGRO* "go" *ngro-sa* "destination," *NDŽIGS* "be afraid" *ndžigs-sa* "dangerous region," *DBEN* "be solitary" *dben-sa* "hermitage," *gros-NDRI* "ask advice" *gros-ndri-sa* "oracle." Occasionally we find the formative in the form *-so*—for example, *RAN* "be bad" *ñan-so* "hell," *NKHRUL* "be mistaken" *nkhrul-so* "wrong way, peril," *GTAD* "lean upon" *gtad-so* "resource, store."²¹

2.1.2.2.1.11. THE FORMATIVE *-pa* "NOMINAL"

The syllabic formative *-pa* "NOMINAL" is by far the most productive formative in the language. It is found in a very large number of nouns derived from verb stems: for example, from verbal present stems we find *NKHOR* "turn about" *nkhor-ba* "the round of rebirth," *NKHRI* "wind, twist, coil oneself" *nkhri-ba* "fondness, attachment," *NGRO* "go" *ngro-ba* "living being," *SGRIB* "make dark" *srib-pa* "sin," *SGOM* "contemplate" *sgom-pa* "contemplation," *DGOS* "be necessary" *dgos-pa* "necessity," *TŠHIN* "bind" *ntšhin-pa* "shackles," *DŽIG* "destroy" *ndžig-pa* "destruction," *NDŽIGS* "be afraid" *ndžigs-pa* "fear," *DŽUG* "set out" *ndžug-pa* "beginning," *NDŽOL* "hang down" *ndžol-ba* "trail, train, retinue," *RÑE* "get" *rñed-pa* "property," *SÑAM* "think" *sñiam-pa* "thought," *SÑOM* "make level" *sñom-pa* "equanimity," *BRÑAS* "despise" *brñas-pa* "contempt," *LTA* "look" *lta-ba* "opinion," *BDUG* "burn incense" *bdug-pa* "the burning of incense," *BDEN* "be true" *bden-pa* "truth," *DUL* "tame, subdue" *ndul-ba* "ecclesiastical rules of conduct," *SDOM* "fasten" *sdom-pa* "vow," *BDOG* "store, put away, keep" *bdog-pa* "wealth," *BDE* "be happy" *bde-ba* "happiness," *NDOD* "desire, long for" *ndod-pa* "lust, longing," *NA* "be sick" *na-ba* "disease," *NUS* "be able" *nus-pa* "ability," *NOR* "err" *nor-ba* "error," *SNAÑ* "appear" *snañ-ba* "appearance," *SPYAD* "perform" *spyod-pa* "activity," *PUL* "give" *nbul-ba* "gift," *RTSOL* "endeavor" *rtsol-ba* "diligence," *ZI* "be calm" *ži-ba* "tranquility," *ZA* "eat" *za-ba* "food," *RIG* "know" *rig-pa* "knowledge," *SAD* "kill" *gsod-pa* "murder," *GSON* "live" *gson-pa* "lifetime."

²¹ Occasionally *sa~so* is found after nouns—for example, *nben* "target" *nben-sa* "place where the target is set up in an archery contest," *tšhu* "water" *tšhu-so* "urinary organs." Such instances seem better described as NOUN + NOUN → NOUN compounds, with the second member *sa~so* "place," than as derivations with a syllabic formative.

The formative *-pa* also nominalizes verbal stems other than the present: we find nouns derived from past stems in *SKYE* "be born" *skyes-pa* "man, male person," *GRAG* "shout, cry" *grags-pa* "fame," *NPHAG* "be raised" *nphags-pa* "noble person," *SPRO* "make go out, cause to spread" *spros-pa* "business, employment, activity," and from future stems in *KTOG* "examine" *brtag-pa* "inquiry," *STAN* "show" *bstan-pa* "doctrine," *SLAB* "learn, teach" *bslab-pa* "doctrine," *BYA* "do" *bya ба* "deed, action, work."

In all these cases, we can discern a wide variety of semantic relationships between the verb and its nominal derivative—for example, *NGRO* "go" *ngro-ba* "SUBJECT OF GOING → living being," *ZA* "eat" *za-ba* "OBJECT OF EATING → food," *NKHOR* "turn around" *nkhor-ba* "STATE OF TURNING AROUND → the round of rebirth," *SAD* "kill" *gsod-pa* "ACT OF KILLING → murder," *TSHIÑ* "bind" *tshin-ba* "INSTRUMENT OF BINDING → shackles," *SNOM* "make level" *snom-pa* "RESULT OF MAKING LEVEL → equanimity." This semantic exocentricity is characteristic of word construction processes: note, for example, *STAN* "show" *ston-pa* "PERSON WHO SHOWS → teacher" but *GRAL* "explain" *ngrel-pa* "THING WHICH EXPLAINS → commentary."²²

In many cases, verbs—primarily stative but occasionally transitive as well—nominalized with *-pa* have been lexicalized as adjectives: we find, for example, *DKON* "be rare" *dkon-pa* "rare," *ÑAN* "be bad" *ñan-pa* "bad," *TSHUÑ* "be little" *tshuñ-ba* "little," *GSAÑ* "be secret" *gsañ-ba* "secret," *RNO* "be sharp" *mo-ba* "sharp," *RÑIÑ* "be old" *rñiñ-ba* "old," *BSOD* "be pleased, take delight" *bsod-pa* "pleasing," *RIÑ* "be long" *riñ-ba* "long," *BTSUN* "be noble" *btsun-pa* "noble," *ÑUÑ* "be few" *ñuñ-ba* "few," *SKAM* "make dry" *skem-pa* "dried up." Such adjectives are formed not only from present stems but also from past stems, as in *NDA* "pass" *ndas-pa* "past," *RGYAI* "grow greater" *rgyas-pa* "extended, expanded," and even, rarely, from future stems, as in *DZAR* "hang down" *gzar-ba* "steep, rugged, precipitous."

2.1.2.2.1.12. THE FORMATIVE *-E* "ADJECTIVE"

The syllabic formative *-E* "ADJECTIVE" primarily produces adjectives from

²² Compare English *prison* and *jail*, which are practically synonymous; but a *prisoner* is one who is kept in a prison, and a *jailer* is the one who keeps him there. Note also such lexicalizations as *RGYAI*. "be victorious" *rgyal-po* "king" but *rgyal-ba* "jina (epithet of the Buddha).

verbs—for example, *BTŠER* “stare” *tšher-re* “staring,” *NPHYAÑ* “hang down” *phyāñ-ñe* “hanging,” *BRÑAS* “despise” *brñas-se* “contemptuous,” *NDZUM~BSUM* “smile” *sem-me* “smiling,” *LOG* “be inverted” *log-ge* “false,” *NDŽOL* “hang down” *ndžol-le~tšol-le* “hanging,” *NKHIRIG* “stick together” *khrigs-se* “plentiful,” *GRAM* “sprinkle, scatter” *khrom-mi* “sparkling,” *HREM* “swell up” *hrem-me* “swollen,” *DGUR~RGUR~SGUR* “bend, writhe, be crooked” *rgu-re* “crooked,” *LHOD~GLOD* “relax” *lhod-de* “relaxed,” *ŽAR* “be lame” *žo-re* “damaged,” *THAL* “pass by” *thal-le* “straight on.”²³

Sometimes we find similar derivatives with the formative *-E-Pa*—for example, *GUG* “bend” *gug-ge-ba* “bent,” *ÑAN* “bad” *ñan-ne-ba* “bad,” *YOM* “swing” *yom-me-ba* “swinging,” *RDŽEN* “be naked” *rdžen-ne-ba* “obvious.” Occasionally we find derivatives in both *-E* and *-E-Pa* from the same source verb: note such pairs as in *TOR* “scatter” *thor-re~tho-re-ba* “scattered,” *RIN* “be long” *rins-se~rini-ñe-ba* “continual,” *GŠIG* “put together” *šigs-se* “relaxed, rocking” *šig-ge-ba* “trembling,” as well as *yam-me~yam-me-ba* “coarse, rough,” whose source verb I have been unable to identify. In a few cases, however, we find that the form in *-E* is an adjective but the form in *-E-Pa* is an abstract noun—for example, *KER* “raise” *ke-re* “erect” *kj-e-re-ba* “act of standing erect,” *NGREÑ* “stand” *NGROÑ* “be straight” *krañ-ñe* “standing” *krañ-ñe-ba* “upright posture,” *SDUG* “be attractive” *sdug-ge* “good” *sdug-ge-ba* “state of being pleased,” *LHAG* “exceed, surpass” *lhag-ge* “projecting” *lhag-ge-ba* “excess amount.”²⁴

²³ It has been speculated that derivatives in *-E* are actually Middle Tibetan forms borrowed into the classical language, based primarily on the observation that the derivatives are frequently without preinitials—for example, *tšher-re* “staring” < *BTŠER* “stare,” *sem-me* “smiling” < *BSUM* “smile,” *šigs-se* “rocking” < *GŠIG* “put together”—just as one might expect in any of several dialects where these preinitials were in the process of being lost. However, these same forms appear as early as the ninth century, in manuscripts from the caves near Tun-huang: we find, for example, *slañ-ñe* “startled” < *SLAÑ* “cause to rise, exhort to action” in *hya* *slañ-ñe ldñ* “The birds, startled, soar,” *dbrul-le* “rotten” < *RUL~DRUL* “rot, become rotten” in *bgram-na dbrul-le* “rotten when scattered”—even *tšher* < *tšher-re* “staring” < *BTŠER* “stare” in *spyan tšher žes grigs* “He gazed with staring eyes.”

²⁴ Adjectives in *-E* readily form adverbs—for example, *lham-mer* “distinctly” < *lham-me* “distinct,” *lhañ-ñer* “clearly” < *lhañ-ñe~lhañ-ñe-ba* “clear,” *sal-ler* “brilliantly” < *sal-le-ba~gsal-le-ba* “brilliant” < *SAL* “cleanse” *GSAL* “be clear,” *tšhem-mer* “quietly” < **tšhem-me* “quiet” *tšhem-me-ba* “stillness” *tšam-me* “quiet” *tšam-me~phyam-me-ba* “slow.”

2.1.2.2.1.13. THE FORMATIVE *-kha~-ka~-ga* "MOUTH"

The suffix *-kha~-ka~-ga* appears in a variety of nouns which apparently have little in common; in many cases the suffix does not appear to be derivational, although it does recur in particular contexts. For example, the suffix appears in words for times of the day and seasons of the year—*dgun-ka* “winter,” *dgoñs-ka* “evening,” *ston-ka* “autumn,” *dpyid-ka* “spring,” *dbyar-ka* “summer, rainy season,” *żogs-ka* “morning,” *sos-ka~so-ka* “spring, hot season.” It also appears in a few color words, such as *ldžañ-kha* (for the more common *ldžañ-gu*) “green,” *ñur-ka* “bright red,” and in *mthiñ-ka* “blue” and *mthon-ka* “azure, sky blue,” where one might suspect a connection with *mkha* “heaven.” And it appears in a few words for body parts—*sñiñ-ga* “heart,” *thugs-ka* “heart,” *mhoñ-ga* “chest,” *loñ-ka* “intestines.”

In several words, however, it is possible to discern a relationship between the suffix *-kha~-ka~-ga* and the noun *kha* “mouth,” in any of three extended senses—referring to holes or openings, to the edges of things, and to surfaces. Thus we find *kh-či-kha* “ornamental cut or notch in wood,” *tša-ga* “hem, edge, border,” *ltoi-ka* “notch, depression, indentation,” *thad-ka* “the direction straight ahead,” *phal-ka* “indentation, incision, notch,” *bu-ga~bug-ka* “hole, opening,” *wa-kha* “water channel, gutter,” *ser-ka* “cleft, slit, fissure, crevice.” Note the following flat surfaces—*lteñ-ka~ldeñ-ka* “pool, pond,” *steñ-ka* “terrace,” *thañ-ka* “painting,” *na-kha* “meadow,” as well as *żeñ-kha* “breadth, width.” A relation with *kha* “mouth” in these extended senses seems clear in *gru* “boat” *gru-kha* “ferry landing,” *thab* “hearth” *thab-ka* “fireplace,” *mhoñs* “smoke hole” *mi:loñs-ka* “gallery or platform on a roof,” *zor* “weapon” *zor-kha* “edge of a weapon,” *la* “mountain pass” *la-kha* “highest point of a pass,” and is less clear in *lam* “road” *lam-ka* “route, roadside,” *gži* “residence” *gžis-ka* “native country.”

In any case, it is not obvious that the process here is better described as derivation with a syllabic formative or as compounding with *kha* “mouth” as a second member. All of this still leaves a residue of nouns with no obvious sources, such as *skas-ka* “ladder,” *kyal-ka* “joke,” *skya-ka* “magpie,” *tšo-ga* “ritual,” *ña-ga* “steelyard,” *star-ka* “walnut,” *dañ-ga* “appetite,” *doñ-ka* “medicinal plant,” *ber-ka* “staff, stick,” *yal-ga* “branch,” *srub-ka* “medicinal grain,” and just a few instances where the suffix looks rather like a nominalizer, with a preference for producing abstract nouns—for example, *NKHO* “desire, think to be valuable” *mkho-ba* “desirable” *nkhos-ka* “worth, value, importance,” *GÑER* “take care of, provide for, take pains with” *gñer-pa*

"steward" *gñer-kha* "attention, care," *dam* "choose, select" *ndam-ka* "choice, option," *GDEñ* "raise, brandish, flourish" *gdeñs-ka* "expanded hood of the cobra."²⁵

2.1.2.2.2. REDUPLICATION

2.1.2.2.2.1. NOMINAL REDUPLICATION

Another form of óuter derivation is REDUPLICATION, which, in nominals, can be either simple or what we will call alternating reduplication. SIMPLE REDUPLICATION produces adjectives from adjectives, with the derivative having an intensive or iterative sense—for example, *thib-po* "dense" *thib-thib* "very dark," *nkyog-po* "crooked" *nkyog-nkyog* "tortuous," *nther-po* "glossy" *nther-nther* "polished," *zim-bu* "thin" *zim-zim* "fine as a hair," *rñam-po* "bright" *rñam-rñam* "dazzling," *ltem-po* "full" *ltem-ltem* "overflowing," *thañ-po* "dense" *thañ-thañ* "strained to the utmost," *skyur-po* "sour" *skyur-skyur* "very sour," *kum-po* "crooked" *kum-kum* "shriveled up," *lkugs-pa* "stupid" *lkugs-lkugs* "very stupid." Note also *nþor-ba* "strewn" *nþor-nþor* "drizzling," *nbal-ba* "disheveled" *nbal-nbal* "shaggy," *sgreñ-ba* "erected" *sgreñ-sgreñ* "well fixed," *ldir-ba* "distended" *ldir-ldir* "full to the brim," *loñ-ba* "rising" *loñ-loñ* "rising in waves, bulging out."

Such reduplications are sometimes used to great poetic effect in the epic of Ge-sar—for example,

khra-mo gliñ-gi mdo-tshen-mams
la-la smug-po phyur-phyur red
thad-la rgya-khra nphur-nphur red
thur-la rbab-rgod yar-yar red

The great spotted horses of Gliñ
 are a swirling fog upon the passes,
 are soaring hawks upon the plain,
 are a leaping avalanche as they descend.

²⁵ The discussion of three syllabic formatives which occur with adjectives—*yāñ-* "MORE," *dže-* "MORE," and *-sos* "MOST"—is deferred to the section on adjectives, where they are briefly reviewed.

ALTERNATING REDUPLICATION yields disyllabic stress groups with the first syllable always having the vowel *a*. Where the source of the reduplicated form has a vowel other than *a*, that vowel is retained in the second syllable; where the source has the vowel *a*, the second syllable has a back rounded vowel, either *o* or *u*. As with simple reduplication, this process creates derivatives with an intensive or iterative sense. Thus, from source syllables with the vowel *a*, we find such examples as *lām-po* "lazy" *lām-lām* "pitiful," *ñān-pa* "bad" *ñān-ñān* "miserable"; and, from source syllables with vowels other than *a*, we find such examples as *glen-pa* "stupid" *glen-glen* "very stupid," *khums-pa* "crooked" *kham-khum* "with uneven ridges," *nkrug-pa* "disturbed" *khrag-khrug* "tumultuous," *nkhōl-ba* "insensible" *khal-khol* "stunned," *ndzog-pa* "heaped together" *ndzag-ndzog* "jumbled up."

In addition, alternating reduplication is found in several nouns—similarly intensive or iterative in meaning—derived from both nouns and adjectives. From nouns we find, for example, *lāsōiñ* "uneven place" *lāsañ-lāsoñ* "broken country," *śoñ-gšoñ* "mountain ridge, pit, valley" *śañ-śoñ-gšañ-gšoñ* "craggy rugged country," *sño* "plant" *sña-sño* "vegetables," *rdzab* "mud" *rdzab-rdzub* "mire," *rdzub* "deceit" *rdzab-rdzub* "imposture"; and from adjectives we find, for example, *rñiñ-pa* "old" *rñāñ-rñiñ* "worn-out clothes, rags," *sob* "hollow, vain" *sab-sob* "something rotten," *thogs-pa* "impeded" *thags-thogs* "impediment," *rlon-pa* "wet" *rlan-rlon* "liquid," *ldib-pa* "unintelligible" *ldab-ldib* "idle chatter."

2.1.2.2.2.2. VERB REDUPLICATION

We also occasionally find verb stems reduplicated in the classical texts, with two different senses. The first is a continuative or iterative sense: this construction is old in Tibetan, and is found in the archaic Central Asian manuscripts—for example, *srin go-phus rbeg-ga rbeg-śi lags sñiam-ste bžab-bžab* "The demon Go-phu kept creeping up, thinking, 'This is Rbeg-ga rbeg-śi,'" *bu-mo tseñ-ngi rba-ga lug nsho gyañ skyoñ-du mtši-mtšhi* "The girl Tseñ-Ngi rba-ga was going about pasturing the sheep and guarding the lambs," *byeu sñi-ñul-du soñ-soñ* "The little birds kept going into the snare," *rmał-žiñ bkal-bkal bkal-žiñ bžu-bžu bžu-žiñ bran-bran bran-žiñ bdag-bdag* "She plucked it and spun it again and again, she spun it and made thread of it again and again, she made thread of it and tied it again and again, she tied it and wove it again and again." Reduplicated constructions with this sense are found in later texts as well—for example, from the epic of Ge-sar,

*de bsam-žiñ blon-po ma-bsdad oñ
lam thag-riñ Sog-skyā bsgril-bsgril byas
sa rgyus-med skyi-ser oñ-oñ byas*

Thus thinking, the minister did not tarry but came:
He kept his pale wings beating on the long road,
He kept his yellow hide moving in the unfamiliar country.

Mi-la ras-pa uses such reduplicated verbs as a repeated device in one of his songs, which he sings when reproached for dressing immodestly in only a strip of cloth, and of which the following are a few verses:

*ñas rtag-tu mi-yul ngrim-ngrim-nas
rañ-yul ñañ-gis brdžed-de tha!*

I have been continually wandering the earth
and have just naturally gone and forgotten my home.

*gtšig-pur ri-khrod ngrim-ngrim-nas
groñ-yul ñañ-gis brdžed-de tha!*

I have been wandering the mountains alone
and have just naturally gone and forgotten inhabited places.

*lus-la gtum-mo shar-shar-nas
lus-gos ñañ-gis brdžed-de tha!*

I have been kindling the mystic heat in my body
and have just naturally gone and forgotten my clothes.

*sems-la gañ-byuñ byas-byas-nas
sba-gsañ ñañ-gis brdžed-de tha!*

I have been paying heed to whatever arises in my mind
and have just naturally gone and forgotten my penis.

*gtšig-pur bag-yod spyad-spyad-nas
ño-tsha ñañ-gis brdžed-de tha!*

I have been practicing modesty in solitude
and have just naturally gone and forgotten my shame.

Such reduplicated constructions have another sense as well—one of completion, of the action of the verb having already been accomplished. Gtsañ-smyon he-ru-ka, in his biography of Mi-la ras-pa, often uses nominalized reduplicated verbs with this sense—for example, *bla-mai bka-śog ltar byas-pai yi-ge yum-gyis sna-nas mdzad-mdzad-pa-žig ndug* “There was a letter, made to resemble a communication from my lama, which my lady had already made,” *rab-gnas paṇ-iṣhen nā-ros grub-grub-pa-žig yin* “This consecration is one that the great scholar Nāropa has already done,” *rma gsos-gsos-par bsdad* “I will stay until the wound has finished healing,” *bsam-blo yañ btañ-btañ-ba yin* “I have thought about it already.”

2.1.2.3. Word families

It is not hard to find, in Tibetan, groups of words that appear to be phonologically and semantically related, although the exact nature of that relationship is not entirely clear—for example, *SKOR* “encircle, surround, enclose,” *SGOR* “turn on a lathe,” *KHOR* “turn around, go about in a circle,” *skor* “circle,” *nkhor* “circle, circumference, retinue, attendants,” *sgor-mo* “ball, disc, coin, rupee,” *kor-kor* “round,” *kho-ra* “circumference, fence, wall,” *gor-ma* “stones, rubble, boulders.” In Sino-Tibetan linguistics such a group of words has traditionally been called a WORD FAMILY.

We may define a Tibetan word family as a group of lexical items sharing a semantic nucleus and related through processes of inner and outer derivation. Such word families can provide unexpected light on the Tibetan semantic world. It is clear, for example, that *SLA* “be thin” is to *SLA* “be easy” as *SKA* “be thick” is to *DKA* “be difficult.” Related to *NPHYO* “roam about, gambol” we find both *nphyos-ma* “bride price” and *nphyon-ma* “prostitute.” The word *dod* “equivalent” (as in *bu-dod* “son equivalent → adopted son,” *skad-dod* “word equivalent → synonym”) is in the same word family as *don* “meaning”; in just the same way, *srid* “dominion, government, world” is in the same family as both *srin-po* “demon” and *srin-bu* “worm.”

Underlying such word families we can sometimes discern the single semantic nucleus common to all the members: for example, *ñMN* “hear,” *ña-ma* “disciple,” and *gñia-bo* “witness, surely” are all related through the semantic nucleus *ÑA “HEAR”; related to that nucleus through *s-* prefixation is the nucleus *SÑA “CAUSE TO HEAR,” which underlies the family *SÑAD* “relate, report,” *SÑAN* “be sweet-sounding,” *sñiad* “malicious or false accusation,” *sñan*

"ear," *sñan-pa* "fame, praise, glory, renown," *sñOD* "tell, relate," *sñON* "assert falsely, disavow dishonestly."

The search for such semantic nuclei can lead down some intriguing paths. For example, a semantic nucleus **N4* "BE PRESSED, BE BURDENED" ties together *N4* "be ill," *nad* "illness," *nan* "urging, pressure, importunity," *nan-tan* "exertion, application, earnestness," and relates these words in turn to *SNAD* "hurt, harm, injure," *NAN* "press, oppress, conquer," and *GNOD* (apparently a generalized *G*- present stem) "damage, injure, hurt." The semantic nucleus of pressure from above brings still further words into the family: thus with the honorific prefix *m-* we find *MNOD* "receive favors or punishment from a superior," *MNAR* "suffer, be tormented," *MNA* "oath," and perhaps even *mna-ma* "daughter-in-law, bride residing with her husband's family." In the Tibetan semantic universe, therefore, an oath and a disease are linked through the concept of pressure, and the same concept links together an injury and a favor from a superior. This word family in fact extends into other Sino-Tibetan languages as well. Thus we find Burmese *na* "be ill," Lahu *na* "be ill," Lushei *nat* "be in pain, ache," Old Chinese **nan* "difficulty, suffering," with a further extension—Burmese *nat*, Akha *neh*, Lahu *ne*, Lisu *ni*, all meaning "deity, spirit," and Old Chinese **nar* "expel demons." The Sino-Tibetan concept of pressure thus reaches from demons to daughters-in-law, and from oaths to injuries, all extending outward from the nucleus **N4*.

2.2. BORROWING

In addition to its inherited stock of native words, the classical Tibetan lexicon is rich in words borrowed from every language of polyglot Inner Asia. The study of such borrowing is especially interesting because linguistic borrowing frequently accompanies cultural borrowing: for example, the Tibetan word *dža* "tea" was borrowed from Middle Chinese **jha* just as Tibetan tea was borrowed from China. Further, choice of linguistic form can reflect attitudes toward the donor culture. In Tibet, for example, New Tibetan (Lhasa) *peskop* "movies" < English *bioscope* has been replaced by *loñen* <*glog-brñan*> "electric image → movies" < New Chinese *tien-ying*. Similarly, New Tibetan (Lhasa) *jana* "China" < Old Tibetan *rgya-nag* "black expanse → China," with all of its ancient cosmological associations, has been replaced with the transfer *lunko* <*kruñ-go*> "China" < New Chinese *chung-kuo* "Central Kingdom."

2.2.1. Transfers

One type of borrowing is the process we will call TRANSFER, whereby a foreign word or phrase is simply incorporated wholesale into the lexicon, with more or less adaptation to native phonology and orthography. Indeed, in Tibetan some transfers have been rendered into an orthography indistinguishable from that of native words. For example, *sku-bde-rigs* "musk" is actually a transfer of Mongol *kuderi* in highly Tibetanized orthography.²⁶ Such transfers may be analyzed by native speakers as if they were Tibetan, and enter into clips as if they were native words. Thus *tham-ka* "seal" is a transfer of the Uighur *tamγa* "brand mark," but is treated as a Tibetan form in *-ka*, yielding clips like *rgyal-tham* "royal seal." Similarly, *pad-ma* "lotus" < Sanskrit *padma* is analyzed as a native form in *-ma*, and enters into such clips as *pad-dkar* "white lotus."

Such Tibetanized transfers may even become the subject of elaborate word play. The Tibetan *ba-dur~ba-ndur~dpa-bdud* "warrior" is a transfer from Mongol *baryatur~badur*. In the epic of Ge-sar, the King of Hor—Mongolia—exhorts his warriors to fight against Gliñ—Tibet—in the words *gliñ wa-moi nthab-ya ma-byuñ-na, hor ba-ndur ma-red khyi-ndur red* "If you do not fight against the foxes of Gliñ, you are not Mongol warriors (*ba-ndur*) but running dogs (*khyi-ndur*)!" Elsewhere in the epic, eighty warriors of Gliñ are introduced as *gliñ-dkar dpa-bdud bryad-tsu-nams* "eighty warriors (*dpa-bdud*) of White Gliñ." A warrior of Hor then defies these warriors of Gliñ and calls them *gliñ-gi khyi-bdud bryad-tsu de* "those eighty dog-demons (*khyi-bdud*) of Gliñ."

As in many languages, transfers in Tibetan turn up in unexpected places. We find, for example, *mig-gi miu* "little man of the eye → pupil," with explanations that relate *miu* "little man" to the reflection of oneself in the eye of a person one is speaking with; but the word is, simply, a transfer of Middle Chinese *myəu "pupil." Similarly, the epic hero of Tibet is Ge-sar, usually said to be king of Gliñ, but sometimes said to be king as well of a land called Khrom or Phrom. In the word *khrom~phrom* we can recognize Ro-me or *rūm*,

²⁶ The native Tibetan word for "musk" is *gla-ba*. The compound *sku-bde-rigs* would normally mean something like "species of body happiness," and was presumably created with a semantic relationship to "musk" in mind. Note that the transfer must have occurred at a time and in a dialect of Middle Tibetan where preinitials and finals were no longer pronounced—thus Middle Tibetan *kuderi* <*sku-bde-rigs*>.

through an eastern Iranian form **srōm*-*hrōm*, from which we find as well the Middle Chinese word for Rome, **phrom*-*from* < **phywət-lyəmge-sar* we can recognize also Latin *cæsar* or perhaps its Greek or Byzantine equivalent *kaisar*, which is also the source of the Russian *czar*. There is an enormous amount of history in the simple fact that the epic hero of Tibet bears a name derived from that of Caesar of Rome.²⁷

The classical Tibetan lexicon has many such transfers from a wide range of source languages. To give some idea of the scope of such borrowing, we may note a few examples. From PERSIAN we find *gur-gum* "saffron" < Persian *kurkum* and *deb-ther* "document" < Persian *dēbter*.²⁸ From ARABIC we find *?a-rag* "barley liquor" < Arabic *?arag* "date palm sap," from TURKISH we find *tshu-pa* "robe" < Turkish *juba*, from MANCHU we find *?am-ban* "Chinese representative in Lhasa City" < Manchu *amban* "minister," and from an unknown but probably KHOTANESE original we find *pi-wāñ* "lute," transferred independently into Middle Chinese as **pyi-pa*.²⁹

Most Tibetan transfers, however, come from four source languages of cultural

²⁷ Such borrowing, of course, works in both directions. The Roman Catholic Church at one time commemorated a Saint Josaphat on November 27; the Greek Church commemorated the same saint on August 26, under the name Iosaph; and the Georgian Orthodox Church commemorated the Blessed Iodasaph on May 19. All the Christian stories of this holy man derive from a Greek version of his life; but there are also parallel Arabic texts of his story, in which he is called Yūzāsaf~Yūdāsaf~Büdhāsaf. He is the son of a king, kept imprisoned in a beautiful city so he could not see old age or sickness or death. When he does see these things, he goes in search of the eternal, which he finds in Jesus Christ; eventually he converts India to Christianity. If there is history in the relationship of Tibetan Ge-sar and Roman Caesar, there is history as well in the fact that for many centuries the Bodhisattva was a Christian saint.

²⁸ The Persian *kurkum* "saffron" may itself be a transfer from a Semitic language: compare Hebrew *karkom*, Aramaic *kurkāmā*, Arabic *kurkum*. Similarly, Persian *dēbter* "document" may in turn come either from Old Persian *dipi* "writing" or from Greek *diphthera* "parchment." In the latter case, the Tibetan *deb-ther* would be related to the English *diphtheria*, a disease so named because of the parchment-like covering that forms on the skin.

²⁹ Tibetan *pi-wāñ* "lute" is a very early transfer, already listed in the ninth-century *Mahāvyutpatti*, with the velar nasal final apparently indicating a Khotanese source. See also Japanese *biwa*, Mongol *biba*, Manchu *fisan*.

and political importance in Inner Asia. From UIGHUR we find *pag-ši* "teacher" < Uighur *bakši*, *?em-išhi* "physician" < Uighur *emci*, and *dar* "silk" < Uighur *toryu*—terms which indicate the culture achieved by speakers of Uighur in their Central Asian oasis civilization.³⁰ From MONGOL we find, for example, *tā-lai* "ocean" < Mongol *dalai*, as in *tā-lai bla-ma* "Dalai Lama," and *er-te-ni* "precious stone" < Mongol *erdeni*, as in *pan-išhen er-te-ni* "Panchen Lama," as well as such terms as *ba-dur~ba-ndur~dpa-bdud* "warrior" < Mongol *bayatur~badur*, discussed above, and *beg-tse* "coat of mail/name of the God of War" < Mongol *begder*.³¹

From CHINESE we find *dža* "tea" < Middle Chinese **jha*, *spar-kha* "the eight trigrams" < Middle Chinese **pwat-kwai*, *par~spar~dpar* "printing block" < Middle Chinese **pwan*, *gi-wañ~giu-wañ~ngi-añ~ngi-sbañ* "bezoar" < Middle Chinese **nyəu~γwañ*, *doñ-tse* "copper coin, money" < Middle Chinese **dhuñ-tsi*—even the word for such a culturally common item as *lksog-tse* "table" < Middle Chinese **cok-tsi*.³² And there are, finally, many transfers from INDIC LANGUAGES. We find, for example, *tsan-dan* "sandal-wood" < Sanskrit

³⁰ The Uighur *bakši* may itself be a transfer from Middle Chinese **pak-ši* "widely-versed teacher." It is interesting to note that words for "silk" in many Inner Asian languages apparently come from Uighur rather than from Chinese—for example, Jagatai *torka*, Koibal *torga*, Mongol *torgan*, Qata-khoja *dürye* "Kashgar silk."

³¹ The native Tibetan equivalent of Mongol *dalai* is *rgya-mtsho* "ocean," and the word *rgya-mtsho* has been an element in the personal names of the last fourteen Dalai Lamas. The Tibetan *pan-išhen er-te-ni* "Panchen Lama" consists of a transfer of Mongol *erdeni* "precious stone," which in turn is a transfer into Mongol of the Sanskrit *rataṇa* "precious jewel," used as the loan translation of Tibetan *rin-po-išhe*, combined with a clip consisting of a transfer of Sanskrit *pandita* "scholar" and Tibetan *išhen-po* "great"—a three-language collocation! Note also that Mongol *begder* "coat of mail" may itself derive originally from Persian *bagtar* "armor."

³² New Tibetan continues the process of transfer from a number of modern languages, as in New Tibetan (Lhasa) *parəptia* "Pravda," *pulisi* "police," *meli* "mile." However, transfers from Chinese have become particularly prominent: for example, in Tibetan newspapers we find <*zi-išun*> "bacteria" < New Chinese *hsí-chün*, <*thiñ*> "department, office" < New Chinese *t'ing*, <*duu*> "degree, kilowatt hour" < New Chinese *tu*, <*zan*> "district" < New Chinese *hsien*, <*išnis-khree*> "automobile" < New Chinese *ch'i-ch'e*, <*tho-la-išis*> "tractor" < New Chinese *t'o-la-chi*. Transfers from Chinese are, as one might expect, often concerned with political as well as with technological matters—for example, <*guñ-khran*> "Communist" < New Chinese *kung-ch'an*, <*gun-khran kruñ-dbyāñ*> "Central Committee of the Communist Party" < New Chinese *kung-ch'an chung-yang*.

candana, *bai-du-rya~bai-dur* “lapis lazuli” < Sanskrit *vaidūrya*, *mar-gad~mar-gad* “emerald” < Sanskrit *marakata*, *señ~ge* “lion” < Sanskrit *sirpha* or Apabhramśa *sīghu~sīphu*, *byi-la* “cat” < Sanskrit *biḍāla~viḍāla* through a Prakrit **bīla* (compare, for example, Hindi *bīlī*), *mu-tig* “pearl” < Sanskrit *muktā~muktiā* through a Prakrit **muktikā~mutik* (compare, for example, Apabhramśa *mottiayu*, Hindi *moṭī*), *po-ti* “book” < Sanskrit *pusta~pustaka*, *se~ndu~ra~sindhu~ra* “vermillion” < Sanskrit *sindūra*.³³

2.2.2. Reproductions

While transfers are simply imported into the lexicon along with the foreign cultural items they name, REPRODUCTIONS attempt to convey the semantic content of the foreign word by using native terms. We can distinguish two types of reproduction. A LOAN TRANSLATION conveys the semantic content of a foreign word by translating its components into native terms—for example, German *Fernsprecher* “far speaker” < English *telephone*. A LOAN CREATION conveys the semantic content of a foreign word by creating an entirely original word out of native elements to express the foreign concept—for example, New Chinese *tien-hua* “electric speech” < English *telephone*.

2.2.2.1. Loan translations

The classical Tibetan lexicon is poorer in loan translations than in either transfers or loan creations. Occasionally transfers and loan translations of the same term occur simultaneously: *bui nsho~ba* “life of the child → a tree whose nuts are strung by parents and hung around their children’s necks as protection” is a loan translation of Sanskrit *pūtrajīva* “life of the child,” a term that was also transferred into Tibetan in the naturalized orthography *nbo-de~tsi*.

Most loan translations in the classical lexicon come from Chinese sources. We find *srog~rus* “chain bone → collar bone” < Chinese *so~tzu~ku*, *rdo~snum* “stone oil → petroleum” < Chinese *shih~yu*, *mgo~nag* “black-headed → the

³³ Both Indian sandalwood and Sanskrit *candana* have entered the cultures of the world: we find Persian *candan~candal*, Greek *sandanon~santalos*, Arabic *ṣandal*, Medieval Latin *sandalum~santalum*, Middle Chinese **tʂyen~dhan*. The native Tibetan word for “vermillion” is *li~khri*, indicating that vermillion was first known from *li* “Khotan.”

people" < Chinese *li-min*, *ni-og* "under the sun → the whole world" < Chinese *t'ien-hsia*, *gser-yig* "golden writing → letter of a great personage" < Chinese *chin-p'ai-chin-ts'e-chin-shu-tzu*. Note especially *rta-klad* "horse brain → agate" < Chinese *ma-nao* "agate," but with Chinese folk etymology interpreting the source term as derived from *ma-nao* "horse brain," and the Tibetan loan translation then semantically regularized from *rta-klad* "horse brain → agate" into *rdo-klad* "stone brain → agate."³⁴

2.2.2.2. Loan creations

Tibetan has been most resourceful in coining new terms for foreign cultural items. Some of these have been more or less spontaneous—for example, *dkar-yol* "white pottery → porcelain," *rgya-tshwa* "Chinese salt → sal ammoniac." During the first half of the ninth century, however, a remarkable translation project set out deliberately to coin a vast number of loan creations to deal with the new Buddhist cultural terminology coming from India. Traditionally, a Tibetan *lo-tsā-ba* "translator" would learn enough Sanskrit to understand isolated words, simple texts, and eventually oral explanations. He would then find an Indian *pandita* who would explain a text to him word by word. It was apparently the lack of standardization in these early laborious translations that led King Khri Lde-sroñ-btsan—also called Sad-na-legs—to commission a panel of Indian *panditas* and Tibetan translators to compile a dictionary of technical equivalents and to set forth rules for the translation of Sanskrit into Tibetan. After the death of the king, his son Khri Gtsug-lde-btsan—also called Ral-pa-tšan—continued the project, finally producing two works. One was a dictionary, the *Bye-brag-tu rtogs-par byed-pa*, better known under its Sanskritized title *Mahāvyutpatti*. The other was a commentary, the *Sgra-sbyor bam-po gñis-pa*, with the Sanskrit title *Madhyavyutpatti*, which functions as a treatise on translation theory and practice. The latter contained the text of the royal edict setting forth the general findings of the commission, and a detailed account of the etymologies underlying the loan creations entered in the dictionary.

For example, the word *buddha* is rendered by Tibetan *sañs-rgyas* "awakened expanded" on the basis of two different Sanskrit etymological glosses—

³⁴ Loan translations from Chinese still find their way into Tibetan—for example, New Tibetan (Lhasa) *tsaklam* <*ltshags-lam*> "iron road → railway" < New Chinese *t'ieh-lu*, New Tibetan (Lhasa) *loñev* <*klog-brñan*> "electric image → movies" < New Chinese *tien-ying*.

mohanidrāpagamāt prabuddha-puruṣavat “He is like a man who has awakened (*prabuddha*) because his sleep of delusion has vanished,” and *buddher vikasanād buddhaḥ vibuddhapadmavat* “He is Buddha because his mind (*buddhi*) has opened up like a lotus that has expanded (*vibuddha*).”

Often it is a doctrinal point that determines the form of a loan creation. In the case of *bhagavan* “Blessed One,” the usual gloss of *bhaga* as Tibetan *legs* “blessing” is rejected in favor of the etymology *bhagnamāracatusṭayatvād bhagavān* “He is *bhagavan* because he has conquered (*bhagna*) the fourfold Evil One.” Thus *bhaga* is rendered not by Tibetan *legs* but rather by *btšom* “conquest,” which—with Tibetan *LDAN* “be endowed” rendering the Sanskrit possessive *-vant*—yields *btšom-ldan* “possessing conquest.” To this collocation is then added the adjective *ndas* < Ø-NDA-s “passed beyond,” to differentiate a *ndžig-ten-las ndas-pa* “transcendent” < Sanskrit *lokottara* conqueror from an ordinary one who has not conquered the Evil One—thus officially rendering *bhagavan* by the loan creation *btšom-ldan-ndas*.

Reliance on Sanskrit folk etymologies leads occasionally to idiosyncratic loan translations. This *r̥si* “seer” is rendered by *drañ-sroñ* “straight upright” on the basis of the folk etymology *kāyovagnanobhir rjuḥ śete iti r̥siḥ* “He is *r̥si* because he rests upright (*rju-*/ST) with body, speech, and mind.” Similarly, we find *pudgala* “person” given as *gañ-zag* “full dripping” based on the scholastic gloss *pūryate galate caiva pumgala* “It is *pudgala* because it is filled (J/pūr) and then leaks away (J/gal).” Again, *arhān* “Worthy One” is rendered by *dgra-btšom-pa* “he who has conquered his enemies” on the basis of the etymology *kleśārīn hatavān arhān* “He is *arhān* because he has destroyed (J/han) his enemies (ari) the defilements .”

The following discussion from the *Sgra-shyor bam-po gñis-pa* on the proper equivalent for *sugata* “Well-gone One” is in many ways typical of the Tibetan loan creation process:

Sugata—On the one hand: *śobhanagataḥ sugataḥ surūpavat* “He is *sugata* (*legs-par gšegs-pa*) because he has become beautiful, like one of beautiful form,” *apunarāvṛtyāgataḥ sugataḥ sunaṣṭājvaravat* “He is *sugata* (*legs-par gšegs-pa*) because he has gone never to return, like a fever which is well cured,” *yāvadgantavyagamanāt sugataḥ supūṇīghaṭavat* “He is *sugata* (*legs-par gšegs-pa*) because he has gone as far as he can go, like a jar which is well filled.”

On the other hand: we read in the *Dharmaskandha*, *sugata iti sukhito bhagavān svargataḥ avyathitadharmaśamanvāgataḥ tad ucyate sugataḥ* “The Blessed One has become blissful and is possessed of the bliss of heaven; he is without affliction and is possessed of the quality of nonaffliction.” Hence we may render the term as *bde-bar gṣegs-pa* “he who has gone to bliss” or *bde-bar brñes-pa* “he who has gained bliss.”

Here we will fix the equivalent as *bde-bar gṣegs-pa* because it is traditional and conforms to the text of the *Dharmaskandha*.

2.2.3. Mixed forms

Occasionally a foreign word or phrase is rendered in Tibetan as a MIXED FORM combining a transfer and a translation. For example, we find Tibetan *ndzam-bu gliñ* “jambudvīpa → the inhabited world,” combining a transfer of Sanskrit *jambu* and native Tibetan *gliñ* “island” as a loan translation of Sanskrit *dvīpa*. Again, we find Tibetan *thai-rdže* “lord” < Chinese *t'ai-shih* “Grand Preceptor,” combining a transfer of Chinese *t'ai* “great” and a loan translation of Chinese *shih* “teacher” by Tibetan *rdže* “master.” Even more interesting is Tibetan *rluñ-rta* “wind horse → prayer flag” < Chinese *lung-ma* “dragon horse,” which mixes a Tibetanized transfer of Chinese *lung* “dragon” as *rluñ* “wind”—sometimes also written *kluñ* “river”—with a loan translation of Chinese *ma* “horse” by Tibetan *rta*.

Another type of mixed form combines a transfer with a native gloss on the meaning of the transferred element—for example, *rma-bya* “peacock” < Sanskrit *māyura* plus Tibetan *bya* “bird,” *rta-zam* “post station” < Mongol *zam* “post stage, post horse” plus Tibetan *rta* “horse,” *su-ra-khuñ* “pit” < Sanskrit *surañga* “trench, mine, pit” through a Prakrit **surañga* (compare Hindi *surañg*, Bengali *suḍaṅg*) plus Tibetan *khuñ* “pit.”³⁵

³⁵ Such mixed forms are not uncommon in New Tibetan. For example, in the Lhasa City newspapers we find <*puu-khañ*> “ministry” < New Chinese *pu* “ministry” plus New Tibetan (Lhasa) *khañ* <*khañ*> “house,” as in <*ltšags-lam puu-khañ*> “Ministry of Railways,” which further combines the mixed form with the loan translation *tšaklam* <*ltšags-lam*> “iron road → railway” < New Chinese *t'ieh-lu*. Note also <*me-le gru-bži*> “square mile” < English *mile* plus New Tibetan (Lhasa) *tupši* <*gru-bži*> “four corner → square,” <*glog-duu*> “kilowatt hour of electricity” < New Chinese *tu* “degree, kilowatt hour” plus New Tibetan (Lhasa) *lø* <*glog*> “lightning → electricity,” <*tshis-khree tshuñ-tshuñ*> “little car → jeep” < New

2.2.4. Backforms

Two further processes of word formation should be mentioned here, which have in common what we can call the recycling of lexical items. We find DIALECT BORROWING where a word, already in the classical lexicon, is borrowed back into the classical language in a Middle Tibetan dialect form (as in English *varmint* from a dialect pronunciation of *vermin*)—for example, *lšuñ-ka* “jackdaw” from *skyuñ-ka*, *lšam* “rafter” from *phyam*, *mšhor-po* “pretty” from *nphyor-po*, *RDŽEN* “be naked” from *SGREÑ*, *ZOR* “be joined together” from *BYOR*. Sometimes such a borrowing can be detected through spelling doublets which imply that new classical forms have been created to account for the borrowed word—for example, the doublet *GRIM~BRIM* “distribute” reflects alternative attempts to provide a classical source for a Middle Tibetan word presumably pronounced **ndrim* or **drim* or **dim*, just as the doublet *nkhyos-pa~nphyos-pa* “gift” reflects similar attempts to naturalize in a suitably classical way a Middle Tibetan word pronounced **ntšospa* or **tšospa* or even **chöpa*.

In BACKFORMATION a new word is created analogically as the source for an existing word—for example, given the noun *sañs-rgyas* “Buddha,” there is eventually created a verb *TSĀÑ-RGYA* “become a Buddha” as its presumed source, just as, in English, the verb *sculpt* was created as the presumed source of the noun *sculptor*. Such backformations are found particularly where the original derivational process has dropped out of use: where the derivation *rgan-po* “old” < *RGA* “be old” or *mthon-po* “high” < *MTHO* “be high” has become opaque, we find the backformation of the new verbs forms *RGAN* “be old” and *MTHON* “be high” as the presumed sources of the adjectives. Again, in the formation of diminutives, original low back vowels become the low front vowel *e*. When this phonological change no longer seems a natural one, we find, for example, *ste-po* “axe” as a backformation from—that is, a presumed source for—*steu* “hatchet,” which actually comes from *sta-ri~sta-gri* “axe,” and perhaps, in the same way, even *lte-ba* “navel” < **lteu* < *lto-ba* “belly” and *sñe* “extremity, end” < **sneu* < *sna* “nose.”

Chinese *ch'i-ch'e* “automobile” plus New Tibetan (Lhasa) *tšuñtšuñ* <*tšuñ-tšuñ*> “small,” <*rdul-phran sbom*> “atom bomb” < English *bomb* plus New Tibetan (Lhasa) *tüñen* <*rdul-phran*> “tiny particle → atom.”

2.3. IMITATIONS

2.3.1. Interjections

A third source of new words in Tibetan is the IMITATION of natural sounds. The most directly imitative words are those that attempt to reproduce spontaneous INTERJECTIONS—for example, *kye* “hey!” *ho-ho* “wow!” *he-he* “ha-ha!” *?e-?e* “a ha!” *tsoz-tsoz* “tsk tsk.” The classical language also makes use of an INTERJECTION FORMATIVE *?a-* in such interjections as *?a-la-la* “INTERJECTION OF DELIGHT,” *?a-ha-ha* “INTERJECTION OF PLEASURE,” *?a-tsa* “INTERJECTION OF PITY,” *?a-le* “INTERJECTION OF SURPRISE,” *?a-su* “INTERJECTION OF SEXUAL SATISFACTION,” *?a-tsi* “INTERJECTION OF WONDER,” *?a-ra* “INTERJECTION OF PHYSICAL PAIN,” and so on.

Some interjections with *?a-* appear to derive from other forms—thus *MTSHAR* “be beautiful” *?a-mshar* “INTERJECTION OF WONDER,” *NA* “be sick” *?a-na~?a-na-na* “INTERJECTION OF GRIEF,” **KHAG* “be rotten” *?a-khag~?a-kha-kha* “INTERJECTION OF CONTEMPT,” *TSHA* “be hot” *?a-tsha~?a-tsha-tsha* “INTERJECTION OF PAIN OCCASIONED BY HEAT.” Such derivation is not always clear: for example, *?a-tshu~?a-tshu-tshu* “INTERJECTION OF PAIN OCCASIONED BY COLD” may have a distant semantic relation with *tshu* “water,” or may be pure sound imitation, as in English *ah-choo!* We may note that the Tibetan name for one of the cold hells is *?a-tshu zer-pa* “where people say *?a-tshu*.”

2.3.2. Onomatopoeia

One step away from representing human sounds is representing non-human sounds. There are several words in the classical lexicon that are clearly ONOMATOPOEIC—*khrum-khrum* “CRUNCHING OF A PESTLE,” *tšag-tšag* “SMACKING OF THE LIPS,” *tšor-tšor* “FIZZING OF BEER,” *tšhem-tšhem* “CRASHING OF THUNDER,” *thríg-thríg* “SQUEAKING OF SHOES,” *si-si* “SOUND OF WHISTLING,” *ur-ur* “BUZZING SOUND,” *ñar-ñar* “HOARSE WHEEZING SOUND,” *meao* “SOUND OF A CAT.” A few of these forms may ultimately derive from reduplicated verbs: for example, compare *GYEÑ* “move back and forth” with *yeñ-yeñ* “SOUND OF STRUGGLE,” *KROL* “ring, resound” with *khrol-khrol* “SOUND OF CLANGING METAL,” *HRAL* “rip up, tear to pieces” with *hrul-hrul* “SOUND OF RIPPING OR TEARING,” and *DŽIB* “suck” with *tšib-tšib* “SLURPING OR SUCKING NOISE,” in the following verses, found in two archaic Central Asian manuscripts:

*gnam-dañ sa nthab yeñ-yeñ dam-dam
ltshags-dañ zañs nthab khrol-khrol sil-sil*

Earth fought with sky, *yeñ-yeñ dam-dam*
Copper fought with iron, *khrol-khrol sil-sil*

*ša bya za ni hrul-hrul
khrag sa nthuñ ni tšib-tšib
rus-pa gle nišha ni khrum-khrum
mgo-spu rdzis khyer ni ban-ban*

His flesh the birds eat yes: *hrul-hrul*
His blood the earth drinks yes: *tšib-tšib*
His bones the boulders gnaw yes: *khrum-khrum*
His hair the wind carries away yes: *ban-ban*

Such onomatopoeic terms also enter into compounds—for example, *ku-sgra* “the sound *ku* → clamor,” *tsheg-sgra* “the sound *tsheg* → crackling,” *si-sgra* “the sound *si* → whistling,” *ur-rdo* “stone that goes *ur* → slingshot,” *ñar-skad* “the cry *ñar* → roar of a lion.”

Onomatopoeic terms are also used to signify the beings or objects that make the particular sound—thus *rtsi-rtsi~tsi-tsi* “mouse,” *pi-pi* “flute,” *ku-ku-sgros* “grey duck.” Perhaps also in this class are *ñañ-pa* “goose” and *kruñ-kruñ~khuñ-khuñ* “crane,” but the latter seems related as well to Sanskrit *krauñca*.

Often the onomatopoeia is lexicalized with a verb—thus *tseg-tseg BYA* “make the sound *tseg-tseg* → rustle like dry leaves,” *sug-sug RGOD* “laugh *sug-sug* → laugh loudly,” *ñañ-ñañ ZER* “say *ñañ-ñañ* → cackle like a goose,” *žuñ-žuñ BYA* “make the sound *žuñ-žuñ* → bow repeatedly like a pigeon,” *hub-hub BYA* “make the sound *hub-hub* → gulp down in large drafts,” *hab-hob ZA~ha-be ho-be ZA* “eat *hab-hob* → gobble greedily.”

2.3.3. Poetic word play

Of particular interest is a set of stereotyped onomatopoeic terms used in Tibetan poetry from very early times. For example, in the archaic chronicle found near Tun-huang, we find a song sung by the Queen Sad-mar-kar, which we can partially reconstruct and translate as follows:

<i>dže-ñe ni dže-ñe-na yar-pa ni dguñ-dañ ñe dguñ-skár ni si-li-li</i>	Nearer yes: nearer Yar-pa yes: is near the sky Stars of the sky yes: <i>si-li-li</i>
<i>dže-ñe ni dže-ñe-na gla-skár ni brag-dañ ñe brag-skár ni si-li-li</i>	Nearer yes: nearer Gla-skár yes: is near the rocks Stars of the rock yes: <i>si-li-li</i>
<i>dže-ñe ni dže-ñe-na sñur-ba ni tshab-dañ ñe gyur-sram ni pyo-la-la</i>	Nearer yes: nearer Sñur-ba yes: is near the water The otter yes: <i>pyo-la-la</i>
<i>dže-ñe ni dže-ñe-na ñen-kar ni dog-dañ ñe nbras-drug ni si-li-li</i>	Nearer yes: nearer Ñen-kar yes: is near the fields The six grains yes: <i>si-li-li</i>
<i>dže-ñe ni dže-ñe-na mal-tro ni klum-dañ ñe skyi-bser ni spu-nu-ru</i>	Nearer yes: nearer Mal-tro yes: is near to Klum The cold wind yes: <i>spu-nu-ru</i>

This type of onomatopoeia in the form A-B-B (where B is *-li~-la~-lu~-ri~-ra~-nu~-re*) is most likely pure sound play. The following is a partial list of the forms encountered—*zi-ri-ri* “DRONING OF BEES OR THE WIND,” *di-ri-ri* “HOWLING OF WIND, LOWING OF CATTLE,” *ldi-ri-ri* “RATTLING OF THUNDER,” *hu-ru-ru* “GASP OF WONDER, HORROR, OR CONFUSION,” *kyi-li-li* “FLASHING OF A RAINBOW OR LIGHTNING,” *kyu-ru-ru* “SOUND OF LAUGHTER OR SONG, CALLING OF BIRDS,” *khyi-li-li* “ROLLING OF WAVES,” *khra-la-la* “SOUND OF HOOVES,” *me-re-re* “MURMUR OF A CROWD, ROAR OF WAVES,” *tha-ra-ra* “NOISE OF ASSEMBLED WARRIORS, ROLLING OF CLOUDS OR WATERS,” *pu-ru-ru* “SOUND OF TROTTING HORSES,” *zu-lu-lu* “STEPPING OF BOOTS,” *khru-lu-lu* “TINKLING OF BELLS,” *pyo-la-la* “SPLASHING OF WATER,” *spu-nu-ru* “BLAST OF ICY WIND,” *kho-ro-ro* “BUZZING OF BEES,” *tshi-li-li* “SOUND OF SNIFFING WITH THE NOSE,” *u-nu-nu* “SOUND OF BUZZING OR WHIRRING,” *si-li-li* “DRUMMING OF RAIN, FLICKERING OF LIGHTNING, SOUND OF A CYMBAL.”³⁶

Another type of poetic word play apparently originates from archaic constructions of the form VERB-E-VERB. Compare the following archaic verse

³⁶ Note, in addition to *si-li-li*, such words as *sil-ma* “tinkling of cymbals,” *sil-sñan* “the sound *sil* → cymbal,” *sil-tshab* “*sil* water → gurgling waters.”

from a Central Asian manuscript with the similar verse given above:

*ša ntša ni hral-te hrald
pags bšu ni ldžib-be ldžib*
Carving the flesh yes: rip rip
Stripping the skin yes: slurp slurp

Or this verse, again from an archaic Central Asian manuscript:

*ri bzur-te bzur-na
sñi-ri bzur-te bzur
spañ ldeb-be ldeb-na
sñi-spañ ldeb-be ldeb*
In winding winding mountains
Sñi mountains wind and wind
In bending bending meadows
Sñi meadows bend and bend

This convention seems early to have become stereotyped into onomatopoeia of the form A-se-A, where the element A frequently appears to be related to a verb. This type of onomatopoeia is found primarily in archaizing poetic styles, as in the following stanzas from the classical text *Klu-nbum bsduš-pai sñin-po*, where A-se-A forms are used in parallel with A-B-B forms such as *si-li-li*:

*ba-dmar glañ-dmar di-ri-ri
ñañ-ñur mañ-po ltšoñs-se-ltšoñs
rma-bya spu-sdug lhabs-se-lhab
rol-mo sil-sñan si-li-li . . .*
Red cows red oxen *di-ri-ri*
Many geese and ducks *ltšoñs-se-ltšoñs*
Bright-feathered peacocks *lhabs-se-lhab*
Music and cymbals *si-li-li* . . .

*klu-mgo mañ-po kyu-ru-ru
sbrul-mgo mañ-po roñ-se-roñ
gyu-mtsho sñon-mo lam-sè-lam*

Manyheaded serpents *kyu-nu-nu*
 Manyheaded snakes *roñ-se-roñ*
 Blue turquoise waters *lam-se-lam*

These onomatopoeic terms appear to constitute a peculiarly Tibetan ONOMATOPOEIA OF MOTION. These terms may be partially listed as follows—*sigs-se-sigs* “ROCKING OR WAVING MOTION (as of trees moved by the wind)” (compare *sigs-se* “relaxed, rocking,” *sig-ge-ba* “trembling, tottering,” *DŽIG* “fall to pieces, decay”), *žuñ-se-žuñ* “MOTION OF A MOVING HORSE” (compare *žuñ-žuñ BYA* “bow or nod repeatedly”), *lšoñs-se-lšoñ* “AGITATED OR SHAKING MOTION” (compare *LTŠOG* “be agitated, tremble, shake,” and perhaps also *gtšog-skad* “wailing, lamentation,” *tšoñ* “cry out, lament,” *tšho-ñe* “lamentation, dirge”), *lhabs-se-lhabs~lhub-se-lhub* “MOTION OF FLUTTERING TO AND FRO” (compare *lhab-lhub* “wide, flowing,” *KLUB* “cover or drape the body”), *liñ-se-liñ* “FLOATING OR FLYING MOTION” (compare *liñ-ñe* “dangling, waving, floating,” *LDIÑ* “float, soar, swim”), *roñ-se-roñ* “BACK AND FORTH MOTION” (compare *roñ* narrow passage, defile, cleft in a hill”), *lam-se-lam* “SHIMMERING OR FLICKERING MOTION” (compare *khra-lam-me* “flickering in many colors,” *lam-lam BYUÑ* “appear shining or flashing”).

A similar onomatopoeia of motion in the form A-ma-A is also encountered in Tibetan poetry. Such constructions apparently date back—as do the A-se-A constructions—to very early poetic conventions. In the archaic Central Asian manuscripts, for example, we find such verses as the following:

spyan rlañ-ma-rliñ
lišhags ldab-ma-lđib
thugs rmañ-ma-rmoñ

Eyes moist moist
 Tongue stutter stutter
 Heart despair despair

As with the A-se-A forms, this type of onomatopoeia is found primarily in archaizing poetic styles. In the following stanzas from Mi-la ras-pa we can see how the A-ma-A forms are used in parallel with both A-se-A and A-B-B constructions:

steñ-na lho-sprin khor-ma-khor
og-na gtsañ-išhab gya-ma-gyu
bar-na rgod-po lañ-ma-liñ

*rtsi-šün sna-tshogs ban-ma-bun
ldžoñ-šün gar-stabs ſigs-se-ſigs
buñ-ba glu-len kho-ro-ro
me-tog dri-ñad tšhi-li-li
bya-mams skad-sñan khyu-ru-ru*

Southern clouds above me *khor-ma-khor*
Pure waters below me *gya-ma-gyu*
Condors in between *lañ-ma-liñ*
All manner of fruit trees *ban-ma-bun*
The dancing of trees *ſigs-se-ſigs*
The singing of bees *kho-ro-ro*
The smell of flowers *tšhi-li-li*
The sweet sound of birds *kyu-ru-ru*

In both the ancient verses and the later archaizing poetry, where the vowel in the first A element differs from the vowel in the second A element, we find generally that the vowel of the second A element is primary and that this primary vowel is replaced by *a* in the first A element—a pattern strikingly similar to that found in alternating reduplication. We may gloss the A-ma-A forms given above as follows—*khor-ma-khor* “CIRCLING OR TURNING MOTION” (compare *NKHOR* “turn around in a circle,” *skor* “surround, encircle,” *nkhör* “circle, circumference”), *gya-ma-gyu* “RUSHING FLOW OF A RIVER” (compare *NGYU* “move quickly,” *NKHYU* “run,” *RGYU* “walk, move”), *lañ-ma-liñ* “FLYING OR FLOATING MOTION” (compare *liñ-se-liñ* “FLYING OR FLOATING MOTION,” *LDIÑ* “float, soar, swim”), *ban-ma-bun* “MOTION OF CROWDING TOGETHER” (compare *na-bun* “fog, thick mist,” *bud* “darkening of the air, as by a dustcloud or snowstorm,” *spun-pa~sbun-pa* “husks, chaff”).

2.4. HONORIFICS

2.4.1. The use of honorifics

HONORIFICS in classical Tibetan form an interesting part of the lexicon. Observe the following pairs of propositions—*dmag-mi rta-la žon* “The soldier rides on a horse” *dmag-dpon tshibs-la ntshibs* “The general rides on a horse,” *žün-pas zun za* “The farmer eats food” *sprul-skus bšos gsol* “The incarnation eats food,” *khol-pos tshu-la kha nkhruñ* “The servant washes his face in water” *rgyal-pos tshab-la žal bsil* “The king washes his face in water.”

In the classical lexicon we find certain pairs of words—such as *rta/tshib*s “horse,” *tshu/tshab* “water,” *kha/zal* “face,” *ŽON/TŠIB* “ride,” *ZA/GSOL* “eat”—that are denotatively synonymous save only that one of the pair is honorific: words that are marked as honorific are used to refer respectfully to the person and possessions of those of higher social or spiritual rank, while words unmarked as honorific are used in reference to the person and possessions of those of equal or lower rank.

There is considerable variation in the use of such honorific words: the frequency and distribution of honorifics in fact constitutes part of the register of a piece of writing and the style of a particular author. The studied and frequent use of appropriate honorifics is characteristic of formal, urbane, and literary registers, while minimal use signals registers that are informal, folk, and colloquial.

No classical text, however, will eschew honorifics entirely. As early as in the ninth-century translation guide *Sgra-sbyor bam-po gñis-pa* we read that *že-sa* “honorific words” must always be used in translating from Sanskrit any reference to the Buddha. That this rule was thenceforth followed can be seen by comparing the old Khotanese manuscript translation of the *Saddharma-puṇḍarīka* with the revised canonical version: the revisers of the text took care to replace such verbs as the older *SKYE* “be born” with its honorific equivalent *LTAM*, the older *BGYI* “do” with the honorific *MDZAD*, the older *MYED* < **ma-YOD* “be without” with the honorific *mi-MÑA*.

2.4.2. Elegance and social vector

It is important to distinguish such honorifics from both ELEGANT SPEECH and SOCIAL VECTOR VERBS. In the first case we find that several words of common occurrence are paired with words that are synonymous except for being ELEGANT—that is, they constitute an indicator of refined or elevated speech, as in *LAGS* instead of *YIN* “be,” *MTŠHIS* instead of *YOD* “exist,” *GDA* instead of *NDUG* “stay,” *MTŠHI* instead of *NGRO* “go,” *BGYI* instead of *BYA* “do,” *bdug* instead of *ña* “I.” Thus when the young Mi-la first meets his future master Mar-pa, he declares *bla-ma rin-po-tshe bdag stod-kyi mi sdig-po-tshe-zig lag* “O precious lama, I am a man from the west who is a great sinner,” using an elevated lexical pattern that Mar-pa quickly punctures with indifference: the author has used his lexical resources to tell us something about the young protagonist’s personality and attitudes.

In the second case we find verbs that have SOCIAL VECTORS as part of their semantic content. Thus the verb *PUL* means “give from below upwards → offer” and *GNAÑ* means “give from above downwards → bestow,” while *TAN* “give” is unmarked for social vector; we may add that the nondirectional verb *TAN* “give” has the honorific equivalent *STSAL*. Similarly, *ŽU* means “speak from below upwards,” *GSUÑ* means “speak from above downwards,” and *BYA* means “speak horizontally.” In texts that recount conversations between interlocutors of unequal rank, it is possible to keep track of who is talking not only by the presence or absence of honorifics but also by the social vector of the verbs of speaking: for example, Mi-la will *ŽU* to Mar-pa and his wife, Mar-pa will *GSUÑ* to his wife and to Mi-la, his wife will *ŽU* to Mar-pa but *GSUÑ* to Mi-la, and Mi-la will *BYA* to shepherd boys.

2.4.3. Primary honorifics

We can distinguish two types of honorific: a PRIMARY HONORIFIC is a lexical item usually unrelated etymologically to the corresponding nonhonorific but marked as its honorific equivalent through a gradual process of semantic specialization; a SECONDARY HONORIFIC is a collocation consisting of a lexical item marked as honorific preceding an unmarked lexical item to yield a form which is honorific as a whole.

To illustrate primary honorifics we may list—with the honorific lexical items second—such noun pairs as *lus/sku* “body,” *mgo/dbu* “head,” *mig/spyan* “eye,” *rus/gduñ* “bone,” *ma/sñan* “ear,” *sna/šañis* “nose,” *kha/žal* “face,” *ndžiñ/mgrin* “neck,” *lag/phyag* “hand,” *rkañ/žabs* “foot,” *ltše/ldžags* “tongue,” *khrag/mtshal* “blood,” *yid/thugs* “mind,” *sñiñ/thugs* “heart,” *phalyab* “father,” *ma/yum* “mother,” *bu/sras* “son,” *khañ/khyim* “house,” *rta/tshibs* “horse,” *tšhu/tšhab* “water,” *gtam/bka* “discourse”; such verb pairs as *NDUG/BŽUGS* “stay,” *YIN/LAGS* “be,” *YOD/MÑA* “exist,” *BYA/MDZAD* “do,” *OÑ/PHEB* “come,” *NGRO/PHEB* “go,” *ŠES/MKHYEN* “know,” *MTHOÑ/GZIGS* “see,” *ŽON/TŠIB* “ride”; and such personal determiner pairs as *ña/ñed* “I,” *khyod/khyed* “you,” *kho/khoñ* “he.”

A lexical item may thus have both an elegant and an honorific equivalent—for example, the unmarked *ña* “I” with both the honorific equivalently *ñed* and the elegant equivalent *bdag*. We can list some examples as follows:

	UNMARKED	ELEGANT	HONORIFIC
"stay"	<i>NDUG</i>	<i>GDA</i>	<i>BŽUGS</i>
"be"	<i>YIN</i>	<i>LAGS</i>	<i>LAGS</i>
"exist"	<i>YOD</i>	<i>MTŠHIS</i>	<i>MÑA</i>
"go"	<i>NGRO</i>	<i>MTŠHI</i>	<i>PHEB</i>
"do"	<i>BYA</i>	<i>BGYI</i>	<i>MDZAD</i>
"die"	<i>TŠI</i>	<i>GUM</i>	<i>GROÑ</i>
"I"	<i>ña</i>	<i>bdag</i>	<i>ñed</i>

2.4.4. Denotation and connotation

We have said that honorifics are DENOTATIVELY synonymous with their nonhonorific equivalents; honorifics may, however, differ CONNOTATIVELY from their corresponding nonhonorifics. Such connotative differences may arise simply as a result of honorific usage. The term *bšos*, for example, is the honorific equivalent of *zan* "food," and is used frequently in ritual to refer to food offered to the god; it thus comes to connote an offering, food given to a deity, even when it denotes simply the food of a socially superior person. Again, in contemplative contexts, where a meditator visualizes his body as that of a god, the nonhonorific term *lus* "body" will be used to refer to the meditator's body and the honorific term *sku* "body" will be used to refer to the body of the god. Hence the former term acquires connotations of imperfection, actuality, and mutability, while the latter term acquires connotations of perfection, potentiality, and significance. Whether one chooses to TRANSLATE such terms denotatively or connotatively into English is of course another question.

Connotative differences may also arise as a result of the extension of the honorific term. It is not infrequently the case that a single lexical item serves as the honorific equivalent of several nonhonorifics: where this occurs the honorific term will assume a connotative breadth lacking in any single corresponding nonhonorific term. For example, *thugs* is the honorific equivalent of both *yid* "mind" and *sñin* "heart," and thus in either use carries something of the cognitive and affective connotations of both terms. Similarly, the honorific verb *MKHYEN* functions as the honorific equivalent of several nonhonorific verbs denoting mental actions—*šES* "know," *RIG* "perceive," *GO* "understand"—and is thus connotatively more broad than any one of them.

The exclamation *bla-ma mkhyen* "The lama knows!" is in a sense irreducible to any one nonhonorific equivalent.

Connotative differences may, finally, arise as a result of the derivation of the honorific term. The verb *BSIL*, for example, has the original meaning "be cool" (as in the paraphrase coordination *bsil-žiñ grañ* "cool and cold"), and comes eventually to function as the honorific equivalent of the verb *KRU* "wash"—thus, oxymoronically, *tshab dron-mo-la sku bsil* "He washes his honorable body in warm water." The honorific term, even while denoting the same action as the nonhonorific term, still retains historical connotations of refreshment and renewal. Similarly, the nonhonorific expression *ro SREG* "burn a corpse" has the honorific equivalent *spur DŽU*, which denotes precisely the same activity: yet the verb *DŽU* retains its original sense of "melt, digest, dissolve," and connotatively suggests the ethereal insubstantiality of the honorable remains.

2.4.5. Euphemism

Such uses, we may note, pass easily over into EUPHEMISM. The unmarked verb *rši* "die" has the elegant equivalent *GUM* and the honorific equivalent *GROÑ*. Yet we also find the use of such euphemistic equivalents as *GŠEGS* "depart," *bde-bar GŠEGS* "depart to bliss," *gnam-du GŠEGS* "depart to heaven," *ži-bar GŠEGS* "depart to peace," *sku-NDA* "transcend the body," *dgoñis-pa RDZOGS* "complete his intentions," and *žiñ-la PHEB* "go to the Buddhafield." A similar type of euphemism is used by the young Mi-la when speaking of his master Mar-pa. Where Mar-pa speaks of himself as *tshañ-gis bzi* "getting drunk on beer," Mi-la speaks of him as *phud-kyis nbad* "striving with drink offerings."

2.4.6. Secondary honorifics

A SECONDARY HONORIFIC is formed by joining an unmarked lexical item with one marked as honorific to yield a form which is honorific as a whole. This process has been remarkably productive. Thus the honorific *sku* "body" may be prefixed to any number of unmarked lexical items referring to parts, states, and appurtenances of the body to produce compounds denotatively synonymous with the original lexical items except that they are now honorific—thus *sku-mkhar* "castle," *sku-tshe* "lifetime," *sku-dpuñ* "shoulder," *sku-tshad* "fever," *sku-rus* "bone," *sku-tshab* "representative," *sku-rags* "girdle," *sku-*

tshas "supplies," *sku-khams* "health," *sku-ša* "flesh," *sku-bsod* "virtue." The honorific *dbu* "head" is similarly prefixed in *dbu-skra* "hair," *dbu-rnas* "pillow," *dbu-thod* "cap," *dbu-rmog* "helmet," *dbu-žwa* "hat," the honorific *phyag* "hand" in *phyag-nkhar* "staff," *phyag-rgya* "seal," *phyag-nar* "wrist," *phyag-mtshab* "thumb," *phyag-rtan* "gift," *phyag-dpe* "book," *phyag-mdzub* "finger," *phyag-nbris* "writing," *phyag-lan* "greeting," the honorific *žabs* "foot" in *žabs-gdan* "carpet," *žabs-bro* "dance," *žabs-sen* "toenail," *žabs-lham* "boot," and the honorific *thugs* "heart, mind" in *thugs-ñams* "spirit," *thugs-sro* "anger," *thugs-bzod* "patience," *thugs-nthad* "pleasure," *thugs-dgoñs* "thought," *thugs-brtse* "love."

Similarly, when an honorific replaces a nonhonorific within an existing compound, the entire compound becomes honorific: here we may list—with the honorific compounds second—such pairs as *kha-lta/žal-lta* "mouth view → instructions," *mig-tshu/spyan-tshu* "eye water → tears," *mig-ltshibs/spyan-ltshibs* "eye covering → eyelid," *mig-nbras/spyan-nbras* "eye fruit → eyeball," *yi-dam/thugs-dam* "mind bond → oath," *yi-mug/thugs-mug* "mind darkness → despair," *yid-tshes/thugs-tshes* "expanded mind → belief," *sñin-rus/thugs-rus* "heart bone → courage," *sñin-rdže/thugs-rdže* "noble heart → compassion," *lag-tsha/phyag-tsha* "hand thing → implement," *lag-phyis/phyag-phyis* "hand cloth → towel," *lag-rtags/phyag-rtags* "hand sign → fingerprint," *lag-len/phyag-len* "hand taking → practical experience," *lag-mthil/phyag-mthil* "hand bottom → palm," *rkañ-mthil/žabs-mthil* "foot bottom → sole," *rkañ-DRAÑ/žabs-DRAÑ* "pull the foot → disgrace."

The use of such honorifics again constitutes part of the style of an author; and many idiosyncratic secondary honorific compounds are not found in the current dictionaries. It is often helpful to be able to translate the honorific portions of such compounds back into their nonhonorific forms: these are the forms more likely to be listed. Thus a reader encountering a previously unattested form such as **spyan-ser* "yellow eye," but unable to find a dictionary entry for the term, can look under its nonhonorific equivalent *mig-ser* and there find the more helpful gloss "jaundice."

2.4.7. Kinship terms

Tibetan kinship terminology constitutes a semantic field which illustrates some interesting features of the honorific system. Classical Tibetan kinship terms for ascending generations are relatively straightforward—*mes-po* "grand-

father," *rmo-mo* "grandmother," *pha~?a-pha* (honorific *yab*) "father," *ma~?a-ma* (honorific *yum*) "mother," *khu-bo~?a-khu* "father's brother," *ne-ne-mo~?a-ne* "father's sister," *žañ-po~?a-žañ* "mother's brother," *sru-mo~?a-sru* "mother's sister." Here we can note the use of *-PHO* and *-mo* as sex formatives and the use of the prefix *?a-* as an OLDER RELATIVE FORMATIVE.³⁷

Kinship terms for siblings, however, show a curious asymmetry. Here we find *mīñ-po* (honorific *dral-po*) "brother of a woman," *sriñ-mo* (honorific *ltšam-mo*) "sister of a man," *džo-džo~?a-džo* (honorific *gtšen-po*) "older brother," *tšhe-že~?a-tšhe* "older sister," *phu-bo* "older brother of a man," *nu-bo* (honorific *gtšuñ-po*) "younger brother of a man," *phu-mo* "older sister of a woman," *nu-mo* "younger sister of a woman." The distribution of honorific equivalents is skewed in a peculiar manner: why is there an honorific equivalent for "older brother" but not for "older sister"? why is there an honorific equivalent for "younger brother of a man" but not for "older brother of a man"?

It is clear that the terms *džo-džo* "older brother" and *tšhe-že* "older sister" belong together both by their meaning and by their morphology: both are reduplicated forms and both regularly occur with the *?a-* formative. Similarly, it is clear that the terms *phu-bo* "older brother of a man" and *nu-bo* "younger brother of a man" (with their secondary derivatives *phu-mo* "older sister of a woman" and *nu-mo* "younger sister of a woman") also belong together semantically and derivationally: the term *phu* is etymologically related to *phud* "first fruit" just as the term *nu* is related to *nud* "suckling." Finally, the terms *gtšen-po* "older brother (honorific)" and *gtšuñ-po* "younger

³⁷ The older relative formative *?a-* is in fact quite productive. In New Tibetan it is not infrequently prefixed to the names of yogins and older monks as a form of affectionate respect: a yogin named *Tshos-kyi blo-gros*, for example, will be called not only by his clipped name *Tshos-blo* but also by the form *?a-tshos* "older relative *Tshos*." In the epic of Ge-sar we find a friend addressed as *?a-rogs* "older relative friend," and Ge-sar himself—under the name *Džo-ru*—is addressed with the play on words *?a-džo* "older brother/older relative *Džo-ru*" in such lines as *?a-džo džo-ru rin-po-tšhe*. We find the formative prefixed to adjectives such as *skyid-po* "happy," as when *Džo-ru* is addressed as *?a-skyid džo-skyid rin-po-tšhe*, or even *sñon-mo* "blue" to form *?a-sñon* "older relative blue one → heaven," as in *?a-sñon gnam-la gñu rgab-na* "if you bend your bow at the old blue sky." And, in the epic, we find the formative prefixed to animals as well—for example, *spyañ ?a-thañ yid-giad řa-la grad . . . spyañ ?a-thañ žim-poi řa-la ndzabs* "Uncle Wolf sets his mind on flesh . . . Uncle Wolf strives for tasty flesh."

brother of a man (honorific)" are clearly related to the adjectives *tshen-po* "big" and *tshuñ-ba* "little," so it seems that they too belong together.

In fact, each kinship term appears to be a complex of four distinct semantic specifications: the term asserts that its referent is either MALE or FEMALE; either marked as HONORIFIC or left unmarked; marked as OLDER than ego, marked as YOUNGER than ego, or left unmarked for relative age; and marked as being the SAME SEX as ego, marked as being a DIFFERENT SEX, or left unmarked for relative sex. No term is marked for more than three of these specifications. Each sibling term may thus be defined as a bundle of these specifications as follows:

<i>miñ-po</i>		MALE	DIFF SEX	
<i>dral-po</i>		MALE	DIFF SEX	HONORIFIC
<i>srñi-mo</i>		FEMALE	DIFF SEX	
<i>ltšam-mo</i>		FEMALE	DIFF SEX	HONORIFIC
<i>?a-džo</i>	OLDER	MALE		
<i>?a-tše</i>	OLDER	FEMALE		
<i>phu-bo</i>	OLDER	MALE	SAME SEX	
<i>nu-bo</i>	YOUNGER	MALE	SAME SEX	
<i>phu-mo</i>	OLDER	FEMALE	SAME SEX	
<i>nu-mo</i>	YOUNGER	FEMALE	SAME SEX	
<i>gtšen-po</i>	OLDER	MALE		HONORIFIC
<i>gtšuñ-po</i>	YOUNGER	MALE		HONORIFIC

Under this analysis, the specification HONORIFIC is an independent lexical variable. The term *gtšen-po* is thus an OLDER MALE HONORIFIC sibling, and as such becomes associated as its honorific equivalent with the independent lexical item *?a-džo*, which is an OLDER MALE sibling. We can see that *gtšuñ-po*, a YOUNGER MALE HONORIFIC sibling, can correspond symmetrically to no other term: the semantic field contains no parallel entry specified only as a YOUNGER MALE sibling. Only one other entry is specified as both YOUNGER and MALE; and *gtšuñ-po* becomes an asymmetrical honorific equivalent of *nu-bo*, a YOUNGER MALE SAME SEX sibling.

In some languages, some phonological changes take place whenever the necessary conditions are present. In Sanskrit, for example, progressive voicing assimilation between contiguous words takes place regardless of the grammatical class of the word involved; thus we find both *āśīt rājā* > *āśīd rājā* "There was a king," where the final of a verb assimilates to the initial of a noun, and *vāk bhrāmyati* > *vāg bhrāmyati* "The speech is excited," where the final of a noun assimilates to the initial of a verb.

On the other hand, some conditioned phonological changes may take place only in particular classes or subclasses of words; where a sound change is phonologically conditioned, but the description of the change must contain morphological information, we speak of MORPHOPHONOLOGICAL change. Tibetan inflectional morphology often involves such morphophonological changes.

For example, several Tibetan particles undergo sound changes conditioned by the final or postfinal of the immediately preceding syllable. Thus the coordinative conjunction "AND" has the form *-ṣīñ* after preceding final or postfinal *-s*, the form *-tṣīñ* after any other preceding final obstruent, and the form *-žīñ* after any preceding final sonorant; but the initials of such NOUNS as *žīñ* "field," *ṣīñ* "tree," and *tṣoñ* "bell" remain unchanged regardless of what precedes them.¹ A description of the sound change would have to specify the grammatical class of the words which undergo it: hence the sound change is morphophonological.

Phonemes which undergo morphophonological changes we will call MORPHOPHONEMES, and we will indicate such morphophonemes by writing them in capital letters. For example, we will write the adversative conjunction "BUT" as *-KYAÑ*, with the onset capitalized, to show—as opposed, say, to the noun *kyañ* "wild donkey," without the capitalization—that the form undergoes

¹ The Tibetan word *tṣoñ* "bell" is borrowed from Middle Chinese *būwōñ "bell." The fact that the word was borrowed does not, I believe, affect its morphophonological status.

morphophonological change, and the morphophoneme in question is the onset cluster. Similarly, we will write the nominalizer *-pa* with an initial capital, since the initial is a morphophoneme which regularly becomes *b* after certain preceding syllable finals and *p* after others; the syllabic formative *-pa* "PERSON HAVING TO DO WITH" undergoes no such changes.

Verbs also undergo morphophonological changes. The inflectional prefix *g-* becomes *d-* before grave initials in the verb root and *g-* before acute initials; similarly, a voiced stop initial in the verb root becomes voiceless after the inflectional prefix *b-*; and the vowel *A-* in the verb root becomes *o* in the imperative stem. Those inflectional affixes which undergo morphophonological changes we will, again, write in capitals; and we will write verb roots entirely in capitals as well. Not every part of every verb root, it is true, is a morphophoneme; but capitalizing the entire root will simultaneously prevent recurring typographical oddities and serve as a signal that the cited form is a hypothetical root rather than an attested stem. Thus, for example, an affricate initial in a verb root may become the corresponding fricative in absolute initial position—that is, after the inflectional prefix *θ-*, as in *žugs* < *θ-DŽUG-s* "entered." But the rule applies only to verb roots, as we have indicated by the capitalization: the past stem *θ-DŽUG-s* "entered" is *žugs*, but the noun *dža* "tea" does not thereby become **ža*, nor the noun *džo-bo* "lord" become **žo-bo*.

1. INFLECTION WITHIN SYLLABLES

1.1. TENSE

When a verb is given a TENSE, the tense is indicated by various more or less regular changes in the phonological shape of the verb. These morphophonological changes constitute the inflectional morphology of the Old Tibetan verb. A verb may have a maximum of four such distinct phonological shapes: for example, we find *n̥tu/btus/btu/thus* as the four forms of the verb we cite as *TU* "gather," and *gtšod/btšad/gtšad/tshod* as the four forms of the verb we cite as *TŠAD* "cut." These four forms of the verb in its most complete paradigm have been named *da-lta* "present," *ndas-pa* "past," *ma-oñs-pa* "future," and *skul-tshig* "imperative" by the Tibetan grammarians. We will use these terms as conventional designations of what are commonly called—inaccurately—the four tenses of the Old Tibetan verb.

1.2. ROOTS AND STEMS

A terminological distinction may be made between roots and stems. A STEM is one of the tense forms that a verb is observed to take; a ROOT is an underlying form that is hypothesized to account most economically for the observed tense stems. For example, given the present stem *nkhro* "is angry" and the past stem *khros* "was angry," we can postulate the underlying root *KHRO* "be angry" from which the two stems are derived by prenasalization and -*s* suffixation respectively. This hypothetical underlying form carries with

*Since words, when they communicate, have no effect,
it dawns on us that we need a society in which
communication is not practiced, in which words become
nonsense as they do between lovers, in which words
become what they originally were: trees and stars
and the rest of primeval environment. The demilitarization
of language: a serious musical concern.*

—John Cage,
The Future of Music

it no necessary implication of actual historical existence, except to the extent that one embraces the interesting thesis that such internally reconstructed forms reflect the real past of the language—a thesis that I will invoke herein from time to time.

1.3. TYPES OF INFLECTIONAL RULE

These stems can be conceptualized as related to their underlying root through the application of a series of inflectional rules. For example, in such a system, the past stem of a transitive verb is seen as formed by adding the prefix *b-* and the suffix *-s* to the root; the present stem of an intransitive verb is seen as formed by prenasalizing the root; the present stem of certain transitive verbs is seen as formed by adding the prefix *G-* to the root and rounding its vowel. The rules that describe which changes are made to a root to form particular stems we will call REALIZATION RULES. Thus it is a realization rule

that the present stem of an intransitive verb is formed by prenasalization—for example, the present stem *nkhro* “is angry” from the root *KHRO* “be angry.”

Now it is clear that such realization rules may produce syllables that violate syllable structure constraints. For example, the realization rule that the present stem of an intransitive verb is formed by prenasalizing the root produces the present stem *?nreñ* from the intransitive root *REÑ* “be stiff.” It is thus necessary to have ADJUSTMENT RULES whereby the stems produced by the realization rules can be adjusted into acceptable forms. For example, it is an adjustment rule that blocks prenasalization before nonstopped phonemes; thus the present stem *?nreñ* is adjusted to the present stem *reñ* “is stiff.” Some adjustment rules operate as well on stems that are otherwise acceptable.

Adjustment rules use two different processes to adjust into acceptable form the stems produced by the realization rules: when a realization rule has added an inflectional affix, an adjustment rule may alter either the affix or the root. On the one hand, for example, prenasalizing the root *REÑ* “be stiff” produces the unacceptable syllable *?nreñ* as the present stem; an adjustment rule blocks the prenasalization to yield the acceptable syllable *reñ < N-REÑ*. We will call such adjustment rules AFFIX RULES. On the other hand, for example, prenasalizing the root *TU* “gather” produces the unacceptable syllable *?ntu* as the present stem; an adjustment rule then aspirates the initial of the root to yield the acceptable syllable *nthu < N-TU*. We will call such adjustment rules ROOT RULES.

1.4. TRANSITIVE AND INTRANSITIVE VERBS

Throughout the grammar of Old Tibetan there is a pervasive distinction between TRANSITIVE and INTRANSITIVE verbs. These verbs are distinguished semantically, syntactically, and derivationally. They are also distinguished inflectionally: intransitive verbs do not have future or imperative stems; intransitive verbs do not form their past stem with a *b-* prefix. The distinction between those verbs that form their past stem with a *b-* prefix—that is, transitive verbs—and those that do not form their past stem with a *b-* prefix—that is, intransitive verbs—is thus the primary distinction in verbal types. We may separate *b*-prefixing verbs from *θ*-prefixing verbs as the fundamental division of the verbal system.

1.5. PARADIGMS

When the realization rules are set out systematically they constitute what we can conveniently consider PARADIGMS for Old Tibetan verb inflection. INTRANSITIVE VERBS signal the present stem by prenasalization and the past stem with the *-s* suffix. We can therefore set out the following intransitive verb paradigm:

PRESENT	PAST
<i>N</i> _____	_____s

The inflection of TRANSITIVE VERBS in Old Tibetan is more complex than that of intransitive verbs. Transitive verbs have additional distinctive forms for future and imperative stems; and there are four different transitive paradigms, depending on how the present and future stems are formed. We can distinguish transitive verbs that signal the future stem with a *b-* prefix from those that signal the future stem with a *G-* prefix; we can distinguish transitive verbs that signal the present stem with a *G-* prefix from those that signal the present stem with prenasalization. All transitive verbs signal the past stem with a *b-* prefix and *-s* suffix. The following are thus the four Old Tibetan transitive verb paradigms:

	PRESENT	PAST	FUTURE	IMPERATIVE
CLASS 1	<i>N</i> _____	<i>b</i> _____s	<i>b</i> _____	_____s
CLASS 2	<i>N</i> _____	<i>b</i> _____s	<i>G</i> _____	_____s
CLASS 3	<i>G</i> _____	<i>b</i> _____s	<i>b</i> _____	_____s
CLASS 4	<i>G</i> _____	<i>b</i> _____s	<i>G</i> _____	_____s

Transitive verbs have two additional realization rules: (1) the present stem of Class 3 and Class 4 incorporates a ROUNDING RULE which changes a spread vowel in the root into a rounded vowel in the stem;² and (2) the imperative

² The ROUNDING RULE changes a spread vowel to a rounded vowel, leaving all other features of the vowel the same. The rule thus does not affect the BACK ROUNDED vowels *u* and *o*. The rule does affect the FRONT SPREAD vowels *i* and *e*, but the resulting FRONT ROUNDED vowels *ü* and *ö* become the FRONT SPREAD vowels *i* and *e* again by the operation of Rule 1; so the sole visible effect of the rule is to change the BACK SPREAD vowel *a* to the BACK ROUNDED vowel *o*.

stem of all classes incorporates both the ROUNDING RULE and an ASPIRATION

Several considerations support the postulation of this rule as part of the verbal paradigm. In many cases, nouns that are related to an affected verb have the vowel *a* rather than the *o* of the present stem of the verb; frequently cognate verbs in other Tibeto-Burman languages also have the vowel *a* rather than the *o* of the present stem. For example, given the nominals *tshad-pa* "punishment" and *tshad-po* "torn," and the intransitive verb *TSHAD* (*ntshad/tshad*) "be cut," we can independently postulate the transitive root *TŠAD* "cut" underlying the stems *gtšod/btšad/gtšad/tšod*, and attribute the vowel *o* in the present and imperative stems to the operation of the rounding rule. This transitive verb *TŠAD* can then also be compared with such forms as Lushei *tšat* "cut." Similarly, the transitive root *SAD* "kill" can be postulated as underlying the stems *gsod/bsad/bsad/sod*, and that root then compared with such forms as Burmese *sat* "kill."

In many cases, the present stem of a transitive verb appears with an *o* vowel, but the present stem *G-* prefix has been blocked by an adjustment rule. For example, we can postulate the transitive root *SKAÑ* "fulfill" underlying the stems *skoñ-bskañs/bskañ-skooñs*, with the present stem *skoñ* < *G-skoñ* < *G-SKAÑ* by an affix rule; this root *SKAÑ* can then be compared with such nouns as *skañ-ba* "satisfaction." Similarly, we can postulate the transitive root *RGYAÑ* "stretch" underlying the stems *rgyoñ/brygañs/bryga/rgyoñs*, once again with the present stem *rgyoñ* < *G-rgyoñ* < *G-RGYAÑ* by a regular rule; and this root *RGYAÑ* can then similarly be compared with such nouns as *rgyañ-ma* "distance."

It is tempting to see the present stem prefix *G-* and the imperative stem suffix *-s* as somehow phonologically responsible for the rounding of the vowel nucleus. Yet we find perfectly acceptable syllables such as *gdan* "seat," *dbañ* "power," and *nags* "forest" where the nucleus *a* remains spread despite the presence of a preinitial *G-* or postfinal *-s*. Similarly, in the future stem of Class 2 and Class 4 transitive verbs we find perfectly acceptable future stems such as *gšad* < *G-TŠAD* "will cut," *gsad* < *G-SAD* "will kill," *dbrad* < *G-BRAD* "will scratch," and *dbral* < *G-bral* < *G-PHRAL* "will separate," where the *a* vowel remains spread despite the presence of an inflectional *G-* prefix; and, in all past stems, we find perfectly acceptable forms such as *bskyago* < *b-SKYAG-s* "spent" and *btags* < *b-TAG-s* "ground," where the *a* vowel remains spread despite the presence of an inflectional *-s* suffix.

It is thus probably true that the rounding rule is not phonologically conditioned, but applies independently of any affix. An alternative way of describing the rule would be to postulate a phoneme of lip rounding **W* (much as *N* is a phoneme of velum lowering) which rounds any vowel in the same syllable. We could then propose such derivations as *gsod* < *G-sod* < **GW-SAD* for the present stem of the root *SAD* "kill," and *smros* < *smro-s* < **SMRA-Ws* for the imperative stem of the root *SMRA* "speak." Similarly, where the *G-* or *-s* is blocked by an adjustment rule, we could propose such derivations as *skyob* < *G-skyob* < **GW-SKYAB* for the present stem of the root *SKYAB* "protect," and *sod* < *sod-s* < **SAD-Ws* for the imperative stem of the root *SAD* "kill."

RULE, which changes unaspirated oral stopped initials in the root into aspirated initials in the stem.³

1.6. AFFIX RULES

Under the realization rules, four affixes are added to verb roots to form tense stems—the prefixes *b-*, *G-*, and *N-* (or prenasalization), and the suffix *-s*. In some instances, the resulting stem needs virtually no adjustment to be acceptable under the syllable structure constraints: for example, from the intransitive root *KHRO* “be angry” we find the present stem *nkhro* < *N-KHRO* “is angry” and the past stem *khos* < *KHRO-s* “was angry,” from the Class 3 transitive root *SAG* “gather” we find the present stem *gsog* < *G-SAG* “gathers,”

³ The ASPIRATION RULE operates to aspirate any verb root initial which can be aspirated without violating either phoneme or syllable structure constraints. The rule applies only to oral stopped initials without preinitials—for example, *thus* < *TU-s* “gather!” *tshums* < *DZUM-s* “shut!” *khums* < *GUM-s* “kill!” *phigs* < *PIG-s* “pierce!” The rule does not function to aspirate nonstopped or nasal consonants: thus we find *zos* < *ZA-s* “eat!” and not *?zhos*, *sos* < *SO-s* “feed!” and not *?shos*, and *ñon* < *ÑAN-s* “listen!” and not *?ñhon*. And the rule does not apply where there is a preinitial before an otherwise affected root initial: thus we find *skyogs* < *SKYAG-s* “spend!” and not *?skhyogs*, *ltos* < *LTA-s* “look!” and not *?lhos*, and *dpogs* < *DPAG-s* “measure!” and not *?dphogs*. Indeed, we even find *ndoms* < *NDAM-s* “choose!” instead of the otherwise acceptable syllable *nhoms*, and *mdzod* < *MDZAD-s* “do!” instead of the otherwise acceptable syllable *mshod*.

In addition, there are two further exceptions. The rule does not apply to verb roots with the initial cluster *DR*, since this would produce the unacceptable output cluster *?thr*. Thus we find *dris* < *DRI-s* “ask!” and not *?hris*, as opposed, say, to *khrol* < *GROL-s* “release!” And, for reasons I do not understand, the rule does not apply to any verb root with initial *B*. Thus we find *bor* < *BOR-s* “fling!” instead of the otherwise acceptable *phor*, *byugs* < *BYUG-s* “moisten!” instead of the otherwise acceptable *phyugs*, and *bris* < *BRI-s* “write!” instead of the otherwise acceptable *phris*. Apart from this last exception, it seems clear that the aspiration rule in some sense looks forward to its output, and does not apply at all where its output would require adjustment.

It is, by the way, an attractive speculation that the aspiration of absolute syllable initials in imperative stems has something to do, phonologically, with the emphasis normally given the expression of a command; but I know of no evidence bearing one way or the other on that point. We might, rashly, propose something like a phoneme of emphasis, parallel to the phoneme of lip rounding *W, which is manifested phonetically as aspiration in certain environments, and which is part of the realization rule for imperative stems.

the past stem *bsags* < *b-SAG-s* "gathered," the future stem *bsag* < *b-SAG* "will gather," and the imperative stem *sogs* < *SAG-s* "gather!" In many cases, however, the resulting stem requires adjustment into acceptable form. For example, prenasalizing the transitive root *SUB* "plug up" produces the unacceptable present stem *?nsub*, which is adjusted, by blocking the prefix, to the acceptable *sub* "plugs up." Similarly, adding the inflectional prefix *b-* and suffix *-s* to the transitive root *ÑO* "buy" produces the unacceptable past stem *?bños*, which is adjusted, by blocking the prefix, to the acceptable *ños* "bought."

1.6.1. The prefix *N*.

Since prenasalization can occur only before oral consonants, the prefix *N-* is blocked before nasal initials in the verb root—for example, *ño* < *N-ÑO* "buys," *mid* < *N-MID* "swallows," *nu* < *N-NU* "sucks." Similarly, since only stopped consonants can be prenasalized, the prefix *N-* is blocked before fricatives and glides—for example, *šud* < *N-ŠUD* "rubs," *za* < *N-ZA* "eats," *reñ* < *N-REÑ* "is stiff," *yoñ* < *N-YOÑ* "comes."⁴ Finally, since only initials can be prenasalized, the prefix *N-* is blocked before any preinitial—for example, *rku* < *N-RKU* "steals," *snol* < *N-SNOL* "intertwines," *lta* < *N-LTA* "looks at."

1.6.2. The prefix *G*.

Since *G-* cannot be a pre-preinitial, the prefix *G-* is blocked before any preinitial—for example, *skoñ* < *G-SKAÑ* "fulfills," *rtog* < *G-RIAG* "examines," *slob* < *G-SLAB* "teaches," *dpor* < *G-DPAG* "measures." Most important, the prefix *G-* undergoes GRAVITY DISSIMILATION according to the initial of the root to which it is affixed: before an ACUTE initial the prefix *G-* becomes the GRAVE preinitial *g-*, and before a GRAVE preinitial the prefix *G-* becomes the ACUTE preinitial *d-*. Thus we find, for example, *gtad* < *G-TAD* "will deliver" but *dkrol* < *G-KROL* "will ring," *gdul* < *G-DUL* "will tame" but *dgod* < *G-GOD* "will array," *gdud* < *G-DUD* "will bend" but *dbud* < *G-BUD* "will blow."

⁴ Note, however, in several verbs, *ld* < *N-L*—for example, *ldañ* < *N-LAÑ* "arises," *ldoñ* < *N-LOÑ* "is blind," *ldug* < *N-LUG* "pours," *ldud* < *N-LUD* "waters." We will discuss this rule later on in this chapter.

1.6.3. The prefix *b-*

Since there cannot be two labial consonants in the same syllable onset, the prefix *b-* is blocked before any root with a labial initial—for example, *bor* < *b-BOR-s* “threw,” *bris* < *b-BRI-s* “wrote,” *myāñs* < *b-MYĀÑ-s* “tasted.” Similarly, since preinitial *b-* can occur only before oral consonants, the prefix *b-* is blocked before nasals—for example, *ños* < *b-ÑO-s* “bought,” *noñs* < *b-NOÑ-s* “caused pain.” Since preinitial *b-* can occur only before unaspirated consonants, the prefix *b-* is blocked before aspirated stops—for example, *khur* < *b-KHUR-s* “carried,” *khrid* < *b-KHRID-s* “led.” Finally, since pre-preinitial *b-* can occur only before nonstopped preinitials, the prefix *b-* is blocked before any stopped preinitial—for example, *gnañs* < *b-GNAÑ-s* “gave,” *dgar* < *b-DGAR-s* “confined,” *gtsis* < *b-GTSI-s* “summoned.”⁵

1.6.4. The suffix *-s*

Postfinal *-s*, like preinitial *G-*, undergoes GRAVITY DISSIMILATION: the acute postfinal *-s* can occur only after grave finals and vowels. Thus, too, the inflectional suffix *-s* is blocked after acute finals in the verb root—for example, *brkus* < *b-RKU-s* “stole” but *btad* < *b-TAD-s* “delivered,” *btags* < *b-TAG-s* “ground” but *btor* < *b-TOR-s* “scattered.”⁶

⁵ Actually, as one might expect, things are a little more complicated than this. The prefix *b-* interacts with labial initials in the root in complex ways; and, although the prefix *b-* is blocked before aspirated STOPS, the prefix interacts in complex ways with AFFRICATES, as does the prefix *G-* as well. We will discuss such interactions under the adjustment rules. In addition, the prefix *b-* is blocked before initial *DR* in the root—for example, *dris* < *b-DRI-s* “asked,” *drubs* < *b-DRUB-s* “sewed,” *drud* < *b-DRUD-s* “rubbed.” But note the occasional hypercorrect form—for example, *bdral* < *b-DRAL-s* “tore apart” as well as the expected form *dral*.

⁶ The past tense inflectional suffix *-s* is in fact preserved sporadically as *-d* after acute finals in several archaic manuscripts of the eighth and ninth centuries, where we find such forms as *gyurd* < *GYUR-s* “became,” *btsald* < *b-TSHAL-s* “acquired,” *bzurd* < *b-ZUR-s* “made way,” and *hrald* < *b-HRAL-s* “tore to pieces.” Note, for example, the parallel verbs in the following bit of archaic poetry from a Tun-huang manuscript—*mdeu-rdze ma-dmard, spoñ-skyen ũa ma-khums* “The tip of the arrowhead did not become red, the skillful archer did not kill the deer,” where *dmard* < *b-DMAR-s* “became red,” with an acute final, is parallel to *khums* < *b-KHUM-s* “killed,” with a grave final.

1.7. ROOT RULES

In many instances, the relationship between a hypothesized verb root and the observed tense stems is relatively transparent—for example, *KHRO* (*nkhro/khros*) “be angry,” *SIG* (*gsig/bsigs/bsig/sig*) “shake.” Sometimes, as we have seen, inflectional affixes may be regularly blocked—for example, in *ñu* < *N-ÑU* “weeps,” *khol* < *KHOL-s* “was boiling,” *sdom* < *G-SDAM* “fastens,” *ños* < *b-ÑO-s* “bought.” And, sometimes, apparently inflectional affixes may in fact be part of the root—for example, *NDRE* (*ndre/ndres*) “be mixed,” *GAS* (*ngas/gas*) “be split.” But even in these cases the structure of the underlying root seems fairly clear.

However, there are many instances where the interaction between prefix and initial is much more complex—where the prefix is not blocked, and the verb root initial undergoes changes to accommodate it. These interactions will be discussed in the following sections.

This usage is continued in the works of the Tibetan grammarians, who use this archaic postfinal *-d* particularly to distinguish the past stem of a transitive verb from a *b*-future stem that would otherwise be identical—for example, *bsgyurd* < *b-SGYUR-s* “translated” as distinguished from *bsgyur* < *b-SGYUR* “will translate,” *bstand* < *b-STAN-s* “explained” as distinguished from *bstan* < *b-STAN* “will explain.” This inflectional postfinal *-d* is called *da-drag* “strong *d*” by the Tibetan grammarians; when found as a marker of the past stem after an acute final consonant, we will call postfinal *-d* the PAST STEM *da-drag*. Given that this past stem inflectional marker appears as *-s* after vowels—for example, *skyes* < *SKYE-s* “was born”—we can hypothesize a Proto-Tibetan past stem suffix *-s, which became *-s* after grave finals and vowels and *-d* after acute finals; in the course of the eighth century the *-d* allomorph of *-s disappeared after acute finals, leaving only the *-s* allomorph after grave finals and vowels.

The past stem *da-drag* must be distinguished from what we will call the PRESENT STEM *da-drag*—the inflectional suffix *-d* found in the present stem of some transitive verbs, as in *ntshod* < *N-TSHO-D* “cooks,” which takes the form *-s* after grave finals, as in *ngugs* < *N-GUG-D* “bends,” and, by the time of Old Tibetan, had disappeared after acute finals. Given that this present stem inflectional marker appears as *-d* after vowels—as in *sbed* < *N-SBA-D* “conceals”—we can hypothesize a Proto-Tibetan present stem suffix *-D, which became *-d* after acute finals and vowels and *-s* after grave finals; even before the earliest written texts, the *-d* allomorph of *-D had disappeared after acute finals, leaving the *-d* allomorph after vowels and the *-s* allomorph after grave finals.

1.7.1. Voice dissimilation

There are some verbs for which there seems good reason to postulate a root with an aspirated initial—for example, *KHUM* (*nkhum/khums*) “contract oneself,” *THIG* (*nthig/thigs*) “fall in drops,” *PHEL* (*nphel/phel*) “grow greater,” *TSHAG* (*ntshag/tshags*) “be broken,” *TSHAÑ* (*ntshañ/tshañs*) “awaken.” Similarly, there are some verbs for which there seems good reason to postulate a root with a voiced initial—for example, *GO* (*ngo/gos*) “become dirty,” *DRIL* (*ndril/dril*) “roll oneself up,” *BAB* (*nbab/babs*) “fall down.” Are there, then, roots with voiceless initials?

Apparently so. Where we find such patterns as *nkhrol/bkrol/dkrol/khrol* “ring,” or *nhub/btubs/gtub/thubs* “chop,” it seems reasonable to postulate a root with a voiceless initial—that is, respectively, *KROL* “ring” and *TUB* “chop.” However, when such roots are prenasalized, they yield forms that require adjustment; and such adjustment takes place through aspirating the initial—thus *nkhrol* < *N-KROL* “rings,” *nhub* < *N-TUB* “chops.” A narrow statement of this rule is that a voiceless stopped initial is aspirated when prenasalized. But note that an equally acceptable form would have resulted from voicing the initial, yielding **ngrol* and **ndub* instead of *nkhrol* and *nhub*. Thus a broader statement of the same rule is that a voiceless stopped initial DISSIMILATES in voice onset time when preceded by prenasalization.

Such dissimilation is found elsewhere in the inflectional system as well. We find such patterns as *ngod/bkod/dgod/khod* “array” and *ndul/btul/gdul/thul* “tame.” In such cases we can postulate a root with a voiced initial—that is, respectively, *GOD* “array” and *DUL* “tame.” In these cases, forms that in fact require no adjustment dissimilate in voice onset time when preceded by a *b*-prefix—thus *bkod* < *b-GOD-s* “arrayed,” *btul* < *b-DUL-s* “tamed,” instead of the equally acceptable past stem forms **bgod* and **bdul*.

However, voice dissimilation does not occur universally. Only STOPPED initials dissimilate after the *b*- prefix; we find, for example, *bzas* < *b-ZA-s* “ate,” *bžus* < *b-ŽU-s* “digested.” And voice dissimilation does not take place after the *G*-prefix; we find, for example, *dgug* < *G-GUG* “will bend,” *gdeg* < *G-DEG* “will raise.” Note, too, that the onset cluster *bg* is both acceptable and not uncommon, as opposed, say, to a form such as *?M*, so that manuscripts will contain occasional “incorrect” forms such as *bgod* < *b-GOD-s* “arrayed.” In the face of the acceptability of *bg* and *bd* clusters, the tenacity of the dissimilation to *bk* and *bt* is in fact quite remarkable.

1.7.2. Unstopping

There are some intransitive verbs for which there seems good reason to postulate a root with a fricative initial—for example, ŠUB (*šub/šubs*) “whisper,” žU (*žu/žus*) “make a request,” SUN (*sun/sun*) “be weary,” ZAB (*zab/zabs*) “be deep,” where present stem prenasalization is blocked by a regular adjustment rule. But we also find such intransitive patterns as *nšhor/šor* “slip away,” *ndžug/žugs* “enter,” *nsho/sos* “be alive,” *ndzag/zags* “trickle,” where a fricative in the past stem alternates with an affricate in the present stem. In such cases we can postulate a root with an affricate initial—that is, respectively, *TŠOR* “slip away,” *DŽUG* “enter,” *TSO* “be alive,” *DZAG* “trickle”—with the additional rule that all such affricate root initials become UNSTOPPED in absolute initial position—thus *šor* < \emptyset -*TŠOR-s* “slipped away,” *žugs* < \emptyset -*DŽUG-s* “entered,” *sos* < \emptyset -*TSO-s* “was alive,” *zags* < \emptyset -*DZAG-s* “trickled.” Alongside such verbs we may note also such patterns as *nšhag/išhags* “be broken,” *nšhar/išhar* “be finished,” where we can postulate a root with an aspirated affricate initial—that is, respectively, *TŠHAG* “be broken,” *TSHAR* “be finished”—where unstopping is undone by our phonological Rule 2. Voiceless affricate initials regularly dissimilate in voice onset time and become aspirated when prenasalized—thus *nšhor* < *N-TŠOR* “slips away,” *nsho* < *N-TSO* “is alive.”

Similarly, there are some transitive verbs for which there seems good reason to postulate a root with a fricative initial—for example, ŠU (*šu/bšus/bšu/šus*) “take off,” žU (*žu/bžus/bžu/žus*) “digest,” SUB (*sub/bsubs/bsub/subs*) “stop up,” ZA (*za/bzas/bza/zas*) “eat,” where present stem prenasalization is blocked by a regular adjustment rule. But we also find such patterns as *nšhad/bšad/bšad/šod* “explain,” *ndžog/bžogs/bžog/žogs* “carve,” *nsho/bšos/gso/sos* “nourish,” *ndzed/bzed/bzed/zed* “hold out,” where a fricative in the past, future, and imperative stems alternates with an affricate in the present stem. In such cases we can postulate a root with an affricate initial—that is, respectively, *TŠAD* “explain,” *DŽOG* “carve,” *TSO* “nourish,” *DZED* “hold out”—with the additional rule that such affricate root initial become unstopped not only in absolute initial position but after the prefixes *b-* and *G-* as well—thus *bšad* < *b-TŠAD-s* “explained,” *bžogs* < *b-DŽOG-s* “carved,” *gso* < *G-TSO* “will nourish,” *bzed* < *b-DZED* “will hold out.” Voiceless affricate initials regularly dissimilate in voice onset time and become aspirated when prenasalized—thus *nšhad* < *N-TŠAD* “explains,” *nsho* < *N-TSO* “nourishes.” And the voiced and voiceless affricate initials, as we have seen, become unstopped in absolute initial position in the imperative stem.

We also find such patterns as *ntshīñ/btśūñs/btśīñ/tshīñs* "bind," *ntshir/btsir/gtsir/tshir* "press." It is clear that any underlying root should have an affricate initial; the only affricate initial left is the aspirated affricate; and, indeed, postulating roots with aspirated affricate initials—that is, respectively, *TSHIÑ* "bind," *TSIIR* "press"—makes sense in such cases. The affricate initial after the *θ*- prefix in the imperative stem is what we would now expect in the case of an aspirated affricate initial. Moreover, if the *b*- and *G*- prefixes are not blocked before affricate aspirate initials, the resulting unacceptable clusters *?btsh*, *?btsh*, *?gtsh*, *?gtsh* must be adjusted into acceptable form; unstopping would here only produce the equally unacceptable clusters *?bsh*, *?bsh*, *?gsh*, *?gsh*. Therefore, VOICE DISSIMILATION applies, and the initial is adjusted to a voice onset time as far as possible from that of the prefix within an acceptable onset cluster—thus *btśūñs* < *b-TSHIÑ-s* "bound," *btsir* < *b-TSHIR* "pressed," *gtsir* < *G-TSHIR* "will press."

Now it is clear that some prefix-initial clusters might be adjusted by more than one adjustment rule. A voiced affricate is, in effect, a hybrid between a fricative and a voiced stop, and the adjustment rules might treat a voiced affricate initial as if it were either: a voiced affricate initial after the prefix *b*- might undergo either unstopping, as in *bz* < *b-DZ*, or, like other voiced stops, voice dissimilation, as in *btš* < *b-DZ*, parallel to *bt* < *b-D*. Similarly, a voiced affricate initial after the imperative prefix *θ*- might undergo either unstopping, as in *ž* < *θ-DZ*, or, like other voiced stops, imperative rule aspiration, as in *tsh* < *θ-DZ*, parallel to *th* < *θ-D*. And, indeed, we find such patterns as *ndžug/btšug/gžug/tshugs* "inject," *ndzud/btsud/gzud/tshud* "lead," where the latter in fact appears to have happened.⁷

One way of describing this pattern is to say that a voiced affricate root initial can, in effect, choose either unstopping or voice dissimilation, but not both, and either unstopping or imperative aspiration, but not both; and that each such verb root makes such a choice, which becomes part of its lexical entry. Another way is to say that the adjustment rules and imperative rule apply to root initials in a particular order, with unstopping applied first; when an initial has been unstopped, as we have seen, the remaining rules of voice

⁷ Since *?gdz* is, like *?bdz*, an unacceptable cluster, some adjustment must occur; but, unlike *?bdz*, the cluster cannot be adjusted by voice dissimilation, which occurs after the prefix *b*- but not after the prefix *G*- . Therefore the cluster can be adjusted only by unstopping, so that we find, in this pattern, *gžug* < *G-DZUG* "will inject," *gzud* < *G-DZUD* "will lead."

dissimilation and imperative aspiration cannot apply, because those rules do not apply to fricative initials; but some verbs with voiced affricate initials have, as part of their lexical entry, an exception feature whereby the unstopping adjustment rule does not apply.

1.7.3. Labial rules

There are three patterns for which we postulate roots with labial initials—*BRAD* (*nbrad/brad/dbrad/brod*) “scratch,” *PUD* (*nbud/phud/dbud/phud*) “cast down,” *PHROG* (*nphrog/phrogs/dbrog/phrogs*) “rob.” The first thing we notice in such patterns is an adjustment rule whereby the inflectional prefix *G-* followed by ANY labial becomes the cluster *db*—thus *dbrad* < *G-BRAD* “will scratch,” *dbud* < *G-PUD* “will cast down,” *dbrog* < *G-PHROG* “will rob.” Given such a rule, the inflection of roots postulated to have aspirated labial initials is perfectly regular, with, for example, *phrogs* < *b-PHROG-s* “robbed” by the blocking of the inflectional prefix *b-* before an aspirated stop initial. Similarly, the inflection of roots postulated to have voiced labial initials is perfectly regular, with, for example, *brad* < *b-BRAD-s* “scratched” by the blocking of the inflectional prefix *b-* before a labial initial, with one exception: the initial *b* in a verb root is not subject to the imperative rule, and we find, for example, *brod* < *θ-BRAD-s* “scratch!” instead of the equally acceptable but nonoccurring form **phrod*.

For the remaining pattern we postulate an underlying root with a voiceless labial initial. There is a derivational basis for this choice as well. We find several pairs of verbs in Tibetan where an intransitive verb with a voiced initial is clearly related, semantically and phonologically, to a transitive verb with a voiceless initial—for example, *GRIL* “be twisted, be wrapped around” *KRIL* “embrace, clasp round,” *DU* “come together, assemble” *TU* “collect, gather,” *DOR* “be scattered, be dispersed” *TOR* “scatter, cast away.” We find several such pairs for which we can similarly postulate voiced and voiceless labial initials—for example, *BUD* (*nbud/bud*) “fall down, leave, disappear” *PUD* (*nbud/phud/dbud*) “pull off, throw down, drive out,” *BAB* (*nbab/babs*) “fall down” *PAB* (*nbebs/phab/dbab/phobs*) “cast down,” *BUB* (*nbub/bubs*) “be turned upside down” *PUB* (*nbub/phubs/dbub*) “make into a roof,” *BOG* (*nbog/bog*) “become loose” *POG* (*nbog/phog/dbog/phogs*) “unload,” *BYE* (*nbye/bye*) “become open” *PYE* (*nbyed/phyes/dbye*) “make open.”

Postulating a root with a voiceless labial initial underlying this pattern means

that one additional adjustment rule is required, as well as one exception to an adjustment rule. First, for reasons that are not clear to me, the unacceptable cluster ?*bp* < *b-P* is adjusted to *ph*. Second, initial *p* in a verb root does not undergo voice dissimilation when prenasalized, but rather assimilates in voice onset time to yield the acceptable cluster *nb*. There seems to be in operation here, at least in part, a preference for *b* initials we can call *B-PERSISTENCE*—note *db* < *G-P*, *db* < *G-PH*, *nb* < *N-P*, and *b* < *Ø-B* in imperative stems—which overrides other more general rules we might otherwise expect.

We can now summarize the interactions of the inflectional prefixes with root initials under these adjustment rules as follows:

INFLECTIONAL PREFIX				
ROOT INITIAL	<i>N-</i>	<i>b-</i>	<i>G-</i>	<i>Ø-</i>
<i>K</i>	<i>nkh</i>	<i>bk</i>	<i>dk</i>	<i>kh</i>
<i>KH</i>	<i>nkh</i>	<i>kh</i>	<i>kh</i>	<i>kh</i>
<i>G</i>	<i>ng</i>	<i>bk</i>	<i>dg</i>	<i>kh</i>
<i>T</i>	<i>nth</i>	<i>bt</i>	<i>gt</i>	<i>th</i>
<i>TH</i>	<i>nth</i>	<i>th</i>	<i>th</i>	<i>th</i>
<i>D</i>	<i>nd</i>	<i>bt</i>	<i>gd</i>	<i>th</i>
<i>P</i>	<i>nb</i>	<i>ph</i>	<i>db</i>	<i>ph</i>
<i>PH</i>	<i>nph</i>	<i>ph</i>	<i>db</i>	<i>ph</i>
<i>B</i>	<i>nb</i>	<i>b</i>	<i>db</i>	<i>b</i>
<i>TŚ</i>	<i>ntśh</i>	<i>bś</i>	<i>gś</i>	<i>s</i>
<i>TŚH</i>	<i>ntśh</i>	<i>btś</i>	<i>gtś</i>	<i>tśh</i>
<i>DŽ</i>	<i>ndž</i>	<i>bž</i>	<i>gž</i>	<i>ž</i>
	<i>ndž</i>	<i>btś</i>	<i>gž</i>	<i>ž</i>
<i>TS</i>	<i>ntsh</i>	<i>bs</i>	<i>gs</i>	<i>s</i>
<i>TSH</i>	<i>ntsh</i>	<i>bts</i>	<i>gts</i>	<i>tsh</i>
<i>DZ</i>	<i>ndz</i>	<i>bz</i>	<i>gz</i>	<i>z</i>
	<i>ndz</i>	<i>bts</i>	<i>gz</i>	<i>z</i>

Table 10. Stem initials after inflectional prefixes

1.8. THE PRESENT STEM *da-drag*

In the present stems of some transitive verbs we find an inflectional suffix *-D* preserved after open syllables. For example, given the stems *ntshod/btsos/btso* "cook" and *nbyed/phyes/dbye* "make open," we can postulate the underlying roots *TSHO* "cook" and *PYE* "make open," respectively, with the additional realization rule _____*D* for the present stem. Transitive verbs which idiosyncratically undergo this realization rule would be so marked in the lexicon.⁸

By the time of Old Tibetan this inflectional suffix *-D* had disappeared after acute final consonants and had become *-s* after grave final consonants. This process of gravity dissimilation accounts for the presence of postfinal *-s* in the present stem of several transitive verbs—for example, *ndžibs* < *N-DŽIB-D* "sucks," *ngugs* < *N-GUG-D* "bends," *ndegs* < *N-DEG-D* "raises," *ndžoms* < *N-DŽOM-D* "conquers."

Additionally, the inflectional suffix *-D* has an effect on both preceding vowels and preceding final nasals, moving them from the back of the mouth to the front in anticipatory assimilation to the following dental. Thus the low back spread vowel *a* becomes the low front spread vowel *e* before the inflectional suffix *-D*. Compare the present and past stems *sbed* < *N-SBA-D* "conceals" *sbas* < *b-SBA-s* "concealed," *sems* < *N-SAM-D* "thinks" *bsams* < *b-SAM-s* "thought," *ngrems* < *N-GRAM-D* "displays" *bkram* < *b-GRAM-s* "displayed," *ndebs* < *N-DAB-D* "throws" *btab* < *b-DAB-s* "threw," *sel* < *N-SAL-D* "clears away" *bsal* < *b-SAL-s* "cleared away."⁹

⁸ The realization rule _____*D* for the present stem appears to co-occur only with the realization rule *N_____* for the present stem: that is, we find transitive roots with present stems of the form *N_____D* but not of the form *G_____D*. The only exception seems to be a lost transitive verb **SAG* of uncertain meaning, which apparently underlies the present stem *glegs* < **G-SAG-D* generalized as the intransitive root *GSEGS* "come." Elsewhere the general rule that _____*D* co-occurs only with *N_____* appears to hold good. Thus a root such as *SAM* "think" yields the present stem *sems* < *N-SAM-D* "thinks" rather than the phonologically acceptable but nonoccurring present stem **gsems* or **gsoms* < *G-SAM-D*.

⁹ This vowel assimilation explains the *e/a/a/o* vowel pattern in some verbs: where we postulate an underlying vowel *a* in the root, *o* < *A* in the imperative stem by the rounding rule, and, where there is present stem *da-drag* *e* < *A-D* by assimilation. Note the present and imperative stems *ngefs* < *N-GAB-D* "covers" *khobs* < *B-GAB-s* "cover!" *sems* < *N-SAM-D* "thinks" *soms* < *B-SAM-s* "think!" *skyal* < *N-SKYAL-D* "brings" *skyol* < *B-SKYAL-s* "bring!" *nges* < *N-GAS-D* "splits" *khos* < *B-GAS-s* "split!"

Further, before *-D* a preceding velar nasal *ñ* moves to the front of the mouth to become *n*, in anticipatory assimilation to the following dental, after which the *-D* disappears through gravity dissimilation.¹⁰ Compare the present and past stems *ndren* < *N-DRAÑ-D* "leads" *drañs* < *b-DRAÑ-S* "led," *len* < *N-LAÑ-D* "takes" *blañs* < *b-LAÑ-S* "took," *nphen* < *N-NPHĀÑ-D* "flings" *nphañs* < *b-NPHĀÑ-S* "flung."

Finally, where a root final *ñ* is fronted to become *n* before inflectional *-D*, the high back rounded vowel *u* moves along with the nasal to the front of the mouth to become, under Rule 1, the high front spread vowel *i*. Compare the present and past stems *ndzin* < *N-DZUÑ-D* "grasps" *bzuñ* < *b-DZUÑ-S* "grasped," *nbyin* < *N-PYUÑ-D* "removes" *phyuñ* < *b-PYUÑ-S* "removed."¹¹

As we have noted, the inflectional suffix *-D* occurs in the present stem only in transitive verbs. In a number of cases where related transitive and intransitive verbs have homophonous underlying roots, the inflectional suffix *-D*—or its remnants—may be the sole distinction between the transitive and intransitive present stems; indeed, this may be one of the reasons why these remnants have been resistant to analogical leveling. Thus we find such pairs of present stems as *skye* "is born" *skyed* "produces," *ngye* "is divided" *ngyed* "divides," *rgyu* "moves" *rgyud* "transmits," *ndzu* "enters" *ndzud* "inserts." Similarly, we find such present stem pairs as *ngag* "is hindered" *ngegs* "hinders," *ngas* "is cleft" *nges* "cleaves," *nishas* "is split" *nishes* "splits," *nbab* "descends" *nbebs* "lowers."

1.9. EXCEPTIONS AND IRREGULARITIES

The system set forth here attempts to explain Old Tibetan verb morphology by postulating a single underlying form for each verb and rules whereby that underlying form becomes each of the observable tense stems. Clearly there is no unique solution to the task of setting up the roots and devising the rules; each proposed solution will attempt to balance often subjective judgments of simplicity, abstractness, naturalness, and elegance. Nor is this

¹⁰ For some reason this process does not affect the root *GAÑ* "fill," which has the present stem *ngéñs* < *N-GAÑ-D* "fills," where we would otherwise expect **ngén*.

¹¹ This rule links together the transitive verb *PYUÑ* "take out, remove" and the intransitive verb *BYUÑ* "*come out → arise, occur, happen."

sort of system the only one possible: there are ways to describe morphology other than by rules and unique underliers. But any system will have holes in it—exceptions and irregularities that must be accounted for, as it were, in footnotes. Some of these exceptions are apparently the result simply of errors in the texts; the rooting out of such scribal errors is, of course, the province of textual criticism.¹² Elsewhere, scribes—or authors—may have a choice of “correct” forms that have come down to them from Old Tibetan; and elsewhere we find, as in other languages, verbs which are just regularly irregular. The following sections will discuss these holes in the system we have set up.

1.9.1. Scribal errors

Tibetan texts contain errors; sometimes verb stems are just written incorrectly. Tibetan scribes are sometimes sleepy or distracted or hurried, just like any scribe—or typist—might be. But, in addition, the Tibetan language has changed phonologically over time; the written language has preserved forms no longer in use in the spoken language. For example, in Lhasa City—and the principle would be the same throughout central Tibet—the stems *sgrub* “accomplishes,” *bsgrubs* “accomplished,” and *bsgrub* “will accomplish” are all pronounced *tup*, the stems *ndegs* “lifts,” *btegs* “lifted,” and *gdeg* “will lift” are all pronounced *tek*, and the stems *ngrol* “sets free,” *bkrol* “set free,” and *dgrol* “will set free” are all pronounced *tö*. The Old Tibetan inflectional affixes are just no longer functional; in Lhasa City, what we are here calling verbal tense is expressed in other ways.¹³

¹² There is a circularity here: the texts are our primary source for our knowledge of the tense stems; based on that knowledge we build a system which we then use to emend the texts. This is an example of what has been called the “hermeneutic circle,” whereby the whole can be understood only through its parts, but the parts can be understood only through the whole. Such a circle, one hopes, is in fact a spiral, with text and concept interacting to yield increased understanding. Unfortunately, it is fair to say that at the present time there are very few critically edited texts in Tibetan, at least as the concept of textual criticism is applied to, say, Greek or Latin texts.

¹³ The loss of inflectional affixes has apparently occurred in Tibetan at various times and in different places. There is evidence as early as the ninth century, for example, that postfinal -*s* was more or less regularly elided, at least in the speech of the urban nobles: on the Sino-Tibetan treaty pillar of 821 at Lhasa, we find Old Tibetan <*gtogs*> transcribed as Middle Chinese **twok*, Old Tibetan <*mtshims*> as Middle Chinese **thym*, Old Tibetan <*legs*> as Middle Chinese **hyek*, and Old Tibetan <*rñegs*> as Middle Chinese **n.k*. Yet, four hundred

What this means is that scribes in various parts of Tibet have for centuries been unclear about the function and form of the tense stems. Let us look at several woodblock prints of the well-known biography of Mi-la ras-pa by Gtsañ-smyon he-ru-ka. In one episode, for example, we read *bla-ma rñog-pa gtsig-pur byon-nas ra-ma rgyab-tu bsnams-te bla-ma-la phul* "Lama Rñog-pa

years later, an edict of Khubilai Khan, issued in 1269, transcribes the name of the Tibetan lama Nphags-pa into Chinese as *pa-ssu-pa*. That same name is borrowed into Mongolian as *baghs-pa*, yet the well-known Tibetan book entitled *gzuñs-bsdus* "anthology of magic spells," is called, in Mongolian, *suñdui*, indicating that—at the time the word was borrowed, or in the dialect the word was borrowed from—the postfinal -s in *gzuñs* "magic spell" was not being pronounced. Matthew Kapstein has conveyed to me an incident in the biography of the fourteenth-century Kloñ-iShen-pa: while the lama is granting an initiation, a female disciple becomes possessed by a *mkha-ngrö-ma* spirit, who castigates him for pronouncing *rigs* as *rik*. In a series of texts from western China, collected by Roy Andrew Miller, Tibetan *grags* "famous"—a frequent component of Tibetan personal names—is transcribed into Chinese as *chi-la-ssu* in 1303 and *cha-ssu* in 1388, with postfinal -s preserved, but as *ta* in 1518, with postfinal -s elided; it is not clear, however, whether this represents a sequence of historical change or simply a fortuitous record of regional variation. What is clear is that, in New Tibetan, postfinal -s does vary with geography: note the following set of dialect variants—Old Tibetan *pags* "skin" > New Tibetan (Ladakh) *paks* (Dbus) *pak* (Lhasa) *pa*, Old Tibetan *phyogs* "direction" > New Tibetan (Ladakh) *tshoks* (Dbus) *tshok* (Lhasa) *tsho*, Old Tibetan *ltags* "iron" > New Tibetan (Ladakh) *tshaks* (Dbus) *tshak* (Lhasa) *tša*, Old Tibetan *žabs* "foot" > New Tibetan (Ladakh) *žaps* (Dbus) *žap* (Lhasa) *žap*, Old Tibetan *khrims* "law" > New Tibetan (Ladakh) *thims* (Dbus) *thim* (Lhasa) *thim*, Old Tibetan *dgoñs* "idea" > New Tibetan (Ladakh) *goñs* (Dbus) *goñ* (Lhasa) *koñ*.

By the way, the following is a partial Lhasa city paradigm for the verb *tup* "accomplish":

	PRESENT	PAST	FUTURE
FIRST PERSON/ IMMEDIATE KNOWLEDGE	<i>tupki-yö</i>	<i>tupa-yin</i>	<i>tupki-yin</i>
SECOND AND THIRD PERSON/ MEDIATE KNOWLEDGE	<i>tupki-tu</i>	<i>tupa-re</i>	<i>tupki-re</i>

Note here the interaction of the verb stem *tup* with the past/nonpast markers -*pa*-~-*a*- and -*ki*-, respectively, and two intersecting mediate/inmediate knowledge auxiliaries—*-tu* and -*yö* for mediate or immediate knowledge, respectively, of events happening right now, and -*re* and -*yin* for mediate or immediate knowledge, respectively, of events happening at a time other than right now.

went off by himself, took the goat upon his back, and gave it to the lama." All the verbs are, appropriately, in the past tense—*BYON* (*nbyon/byon*) "go, proceed," *SNAM* (*snom/bsnams/bsnam*) "seize, take," *PUL* (*nphul/phul/dbul*) "offer, give upward." The blockprint from Spo, in southeastern Tibet, however, has the anomalous reading *snams* instead of *bsnams* < *b-SNAM-s* "took." There is no reason to take this particular reading as anything other than a scribal error, made, in part, because there was no difference between the pronunciation of <*snams*> and <*bsnams*> in the dialect of the scribe. Moreover, in such a case, the error is unlikely to be caught and corrected by the usual Tibetan proofreading procedure, in which a copy is checked against its original by reading the original out loud to the scribe; clearly this procedure is ineffective when the error and the original are homophonous.¹⁴

An editor of no judgment, perpetually confronted with a couple of MSS. to choose from, cannot but feel in every fibre of his being that he is a donkey between two bundles of hay. What shall he do now? Leave criticism to critics, you may say, and betake himself to any honest trade for which he is less unfit. But he prefers a more flattering solution: he confusedly imagines that if one bundle of hay is removed he will cease to be a donkey.

—A. E. Housman,
Preface to *M. Manilius Astronomicon Liber Primus*

Similarly, in the same episode, Rñog-pa is trying to justify to his master Marpa why he had bestowed an unauthorized initiation on Mi-la. He says, in excuse, *bka bsgrubs-pa lags* "I obeyed your orders!" with the appropriate past stem of the verb, *SGRUB* (*sgrub/bsgrubs/bsgrub*) "accomplish, fulfill." But the print from Spuñs-thañ, in Bhutan, has the future stem *bsgrub* instead of the past stem *bsgrubs* < *b-GRUB-s* "fulfilled," which, of course, makes no sense in the context, and which can only be a scribal error caused by the omission of an unpronounced affix. And the blockprint from Spo once again omits the

¹⁴ In addition, other external checks on the correctness of the copy, such as rhyme or alliteration, are not found in Tibetan literature, and meter cannot serve as a check where the variation takes place—as here—within the syllable.

prefix past stem *b-* prefix, yielding the anomalous form *sgrubs*—not a newly attested tense stem but, rather, a mistake in transcription.

Clearly, the reader may be saying, the Spo print is just a bad text. Actually, however, there is no such thing as a bad text; there are only bad readings in particular texts, and each reading must be judged on its own merits. In this same episode, for example, the master Mar-pa, after a fit of temper, sits with his head wrapped up in his robe, pointedly ignoring everyone. The verb meaning “wrap up, put over, cover” is *TUM*, generally inflected as a Class 1 verb, except that we also find a present stem *gtum*—thus *TUM* (*nithum*—*gtum*/ *btums/btum*) “wrap up.” Despite this variation in the present stem, there is every reason to believe that the past stem remains the perfectly regular *btums* < *b-TUM-s* “wrapped up.” Yet it is only the Spo print which gives the correct reading *dbu btums-nas bžugs* “He sat with his head wrapped up.” The other prints—from Spuñs-thāñ in Bhutan, from Bstan-rgyas-gliñ in Lhasa, and from Bkra-śis lhun-po—all give the anomalous reading *gtums*, which is not part of a new paradigm, but a scribal error to be emended by the textual critic.¹⁵

¹⁵ It could be argued that we are here dealing with two roots—the earlier *TUM* and a synonymous later *GTUM*, the latter a generalized form of the present stem of the former; we would then have the perfectly regular *gtums* < *b-GTUM-s* “wrapped up.” The wholesale acceptance of such arguments would go a long way toward legitimating every scribal error ever made. Sometimes, as we shall see, such an argument can be valid; but it should be used sparingly. I see no reason in the present case to recognize an additional root rather than a scribal error, bearing in mind the maxim of textual criticism, that witnesses are to be weighed, not counted.

Sometimes, of course, it is hard to know of several textual variants which is the correct one. In one episode, the master Mar-pa is having the obnoxious young Mi-la build and then tear down a series of stone towers, as part of his discipline. Mi-la is about a third of the way toward completing his third tower when Mar-pa approaches him and says, according to the Bstan-rgyas-gliñ and Bkra-śis lhun-po texts, *mthu-tshen khyod brtsigs-pai mkhār ndi sui yin* “Magician, whose is this tower you have built?” The Spuñs-thāñ text is the same, except that the verb is the future stem *brtsig*—thus “Whose is this tower you will build?” And the Spo text gives the present stem *rtsig*—thus “Whose is this tower you are building?” All three readings are morphologically correct, and all three make sense in the context; my own preference would be for the present stem in the Spo text, but there is clearly room for argument.

Finally, all of these scribal errors must be disentangled—somehow—from idiosyncratic spellings by the author and from systematic regional variations which must be considered part of the autograph. A textual critic may in fact conclude that the earliest versions of the

1.9.2. Multiple class membership

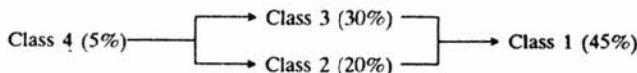
Another source of verbal irregularities is the fact that verbs can belong to more than one inflectional class. For example, as we have seen, *TUM* "wrap up" apparently has both the present stem *nthum* < *N-TUM* and *gtum* < *G-TUM* "wraps up"; thus, in the texts, *TUM* "wrap up" appears as both a Class 1 and a Class 3 verb. How does this happen?

A rapid survey of over four hundred Tibetan transitive verbs shows that Class 1 is the largest class, containing almost 45 percent of the verbs; Class 3 follows with approximately 30 percent; Class 2 contains approximately 20 percent; and Class 4 contains approximately 5 percent of the transitive verbs counted. This means that there are almost twice as many verbs with *N*-present stems (65 percent) as there are with *G*-present stems (35 percent), and just about three times as many verbs with *b*-future stems (75 percent) as there are with *G*-future stems (25 percent). While these numbers should not be given more weight than they can bear, they do indicate that there is considerable analogical pressure on transitive verbs to appear with *N*-as their present stem prefix and *G*-as their future stem prefix; and we should not be surprised to find such analogical formations in our texts alongside presumably older forms.¹⁶

Thus from the root *TIG* "make drip" we find both present stems *nthig* < *N-TIG* and *grig* < *G-TIG* "makes drip," and from the root *TUB* "chop" we find both

text incorporated previously unattested forms of the language, or may be able to show that forms in other texts—by the same author or from the same region—previously thought to be scribal errors are in fact in the form the author intended.

¹⁶ The flow of this analogical change has apparently been for Class 4 verbs (now 5 percent of the total) to become either Class 2 verbs (now 20 percent of the total), by innovating an *N*-present stem, or Class 3 verbs (now 30 percent of the total), by innovating a *b*-future stem; and then for both Class 2 and Class 3 verbs to become Class 1 verbs (now 45 percent of the total), by innovating *b*-future stems and *N*-present stems respectively:



In fact, it is probably reasonable to assume that the percentages we now see are the result of a long process of leveling which goes back to Proto-Tibetan, where we can hypothesize an originally more equal distribution of transitive verbs among the four paradigm classes.

present stems *nhub* < *N-TUB* and *gtub* < *G-TUB* "chops." The verb *TIG*, with the future stem *btig*, thus appears to be moving from Class 3 to Class 1; the verb *TUB*, with the future stem *gtub*, similarly appears to be moving from Class 4 to Class 2. In the same way, from the root *DUD* "bend" we find both future stems *gdud* < *G-DUD* and *btud* < *b-DUD* "will bend," and from the root *SAD* "kill" we find both future stems *gsad* < *G-SAD* and *bsad* < *b-SAD* "will kill." The verb *DUD*, with the present stem *ndud*, thus appears to be moving from Class 2 to Class 1; the root *SAD*, with the present stem *gsod*, similarly appears to be moving from Class 4 to Class 3.

1.9.3. Multiple underliers

Another source of exceptions and irregularities is the fact that a verb may change its underlying form.¹⁷ For example, the archaic suffix *-D* as a sign of the present stem in certain transitive verbs was, by the time of Old Tibetan, found in the form *-d* only in open syllables; in open syllable roots, this yielded a regular but unusual alternation between final *-d* in the present stem and final *-s* in the past stem. In such cases, there is a tendency for the apparent anomaly to be leveled by reinterpreting the underlying root to incorporate the archaic inflectional suffix. Thus, from the root *RÑE* "obtain" we find, regularly, the present stem *rñed* < *N-RÑE-D* "obtains" alongside the past stem *brñes* < *b-RÑE-s* "obtained." But, once such present stem *da-drag* has become opaque to speakers, the seemingly anomalous final *-d* in the present stem is accounted for by reinterpreting the root as *RÑED*. And, from this new root, we see the appearance of a new regularly formed past stem *brñed* < *b-RÑED-s* "obtained" in addition to the older *brñes*.

Underlying forms can be similarly reinterpreted to incorporate prefixes. From

¹⁷ Alternatively, two different but homophonous roots can be conflated into a single seemingly anomalous paradigm. For example, alongside the present stem *ntshab* "hides" we find two past stems, *tshabs* and *btshabs* "hid." It seems clear, however, that we are here in fact dealing with two roots—an intransitive root *TSHAB₁* (*ntshab/tshabs*) "hide oneself" and a transitive root *TSHAB₂* (*ntshab/btshabs/btshab/tshobs*) "conceal." Similarly, we find the past stems *tshags* and *btshags* alongside the present stem *ntshags*, and the past stems *tsor* and *btstor* alongside the present stem *ntshor*. Again, it seems clear that the related roots *TSHAG₁* (*ntshag/tshags*) "trickle" and *TSHAG₂* (*ntshag/btshags/btsag/tshogs*) "squeeze," and the related roots *TSOR₁* (*ntshor/sor*) "flee" and *TSOR₂* (*ntshor/btsor/gsor*) "pursue," have been conflated into a single seemingly irregular paradigm.

the Class 3 verb *so* "nourish" we find the regular stems *gso/bsos/bso/sos*, as well as the apparently irregular past stem *gsos*. But the past stem *gsos* is regular if the verb root has been reinterpreted as *GSO*, as is the present stem *gso* as well—thus *gso* < *N-GSO* "nourishes," *gsos* < *b-GSO-s* "nourished." But why reinterpret the root? Apparently the root was reinterpreted as part of a switch from Class 3 to Class 1; in such a class switch, a root with a fricative initial would yield the unfamiliar present stem **so* < *N-SO* "nourishes," rather than the familiar present stem *gso*. So the familiar present stem was retained, the verb treated as Class 1, and the result was a reinterpretation of the underlying form to *GSO*. Such Class 1 verbs as *GSÖN* "hear" and *GSUÑ* "speak" may also originally have had fricative initials, but subjected to similar processes that in their case reached completion.¹⁸

1.9.4. Conflict of rules

A third source of irregularity in the verbal paradigms is the fact that morphophonemic rules change in the course of time, and the frozen products of earlier rules may persist alongside the products of later rules. A good example is found in the case of roots with initial *l*. It seems certain there was an early rule in the language whereby a prenasalized *l* became the cluster *ld*. Note, for example, the intransitive present and past stems *ldāñ* < *N-LAÑ* "arises" and *lañs* < *LAÑ-s* "arose," *ldoñ* < *N-LOÑ* "is blind" *loñ* < *LOÑ-s* "was blind," and the transitive present and past stems *ldug* < *N-LUG* "pours" *blugs* < *b-LUG-s* "poured," *ldud* < *N-LUD* "waters" *blud* < *b-LUD-s* "watered."

As this archaic rule ceased to be productive, some of the apparently anomalous present stems it produced were accounted for by reinterpreting the underlying root. Thus we find the variant past stems *ldañs* "arose" and *ldoñs* "was blind" alongside *lañs* and *loñ*, reflecting a change of the underlying roots from *LAÑ* to *LDAÑ* and from *LOÑ* to *LDOÑ*. Such transitive roots as *LDAD* "chew" and *LDAG* "lick" are quite likely the results of the same process: compare Tibetan *LDAG* "lick" with Burmese *hyak*, Lushei *liak*, Lisu *lghe*.

¹⁸ Similarly, transitive roots with aspirated stop initials are rare in the classical language, and further have the property of regularly blocking the *b-* prefix, which cannot occur before an aspirated initial. Thus the transitive root *KHUR* "carry" has the quite regular past stem *khur* < *b-KHUR-s* "carried." Compared to most transitive roots, however, the past stem *khur* seems anomalous. Thus, when we find a past stem *bkur* in a text, the surface conformity of the past stem has been achieved by changing the underlying root from *KHUR* to *KUR*.

"lick," and thus Proto-Tibetan **lag* "lick."

In classical Tibetan there is also the rule that glides cannot be prenasalized; that is, in verbal inflection the prefix *N-* is automatically blocked before any glide—for example, *yib* < *N-YIB* "hides," *reñ* < *N-REÑ* "is stiff." In analogy with this majority pattern, the minority pattern of initial *l* begins to change to conform to the pattern for the rest of the glides—thus *lug* < *N-LUG* "is meek" instead of **ldug*, *lab* < *N-LAB* "says" instead of **ldab*.

Here a majority rule pattern, whereby *l* < *N-L*, is in conflict with a minority rule pattern, whereby *ld* < *N-L*. Given the root *LAÑ* "arise," the shape of the present stem—whether *lañ* or *ldañ*—will depend on whether the writer applies the old minority rule or the general rule.

As the earlier and archaic rule ceases to be productive, then, the verbal system changes in three different ways. First, some verbs reinterpret their underlying forms to regularize the anomalous present stem produced by the minority rule: thus, where we find a past stem *ldir* "was distended," rather than **lir*, we must postulate an underlying root *LDIR* "be distended," presumably from an earlier root **LIR* which is now lost. Second, some verbs follow the minority rule exclusively and some the general rule exclusively: thus the root *LOG* "turn around" has only the present stem *ldog*, and the root *LUS* "remain behind" has only the present stem *lus*. Third, some verbs are unpredictably the subject of either rule: thus, from the root *LAÑ* "arise," we find in the texts the two present stems *lañ* and *ldañ* both attested.

1.9.5. Suppletion

SUPPLETION occurs when one form in a paradigm is completely replaced by a form from another paradigm, as in English *go/went*. In Tibetan we similarly find the present stem *ngro* "goes" associated with a past stem *soñ* "went," of uncertain origin but almost certainly a completely different verb. In some New Tibetan dialects the past stem *soñ* has in turn been replaced, for example, by New Tibetan (Lhasa) *tshin* <*phyin*> "went," clearly related to the classical verb *PHYIN* "move, proceed." We also find a form *sog* "come!" regularly used as the imperative stem of the intransitive verb *oñ* "come," which normally, of course, would not have a separate imperative stem at all. The form *sog* may in fact be the imperative stem of a lost verb **SAG*, of uncertain meaning; the present stem of the same verb may perhaps be found

frozen in the intransitive verb *GŠEGS* "come," which functions in the classical language as the honorific equivalent of *OÑ* "come," and which seems to have generalized a present stem *gšegs* < *G-ŠAG-D.

1.9.6. Regular irregularities

Finally, there are some verbs that, as a regular matter, simply deviate from the verbal paradigms we have proposed. A few such verbs are regularly inflected without one or other prefix in the present stem—thus *tšhe* "grows great" instead of the expected **nišhe* < *N-TŠHE*, *pheb* "goes" instead of the expected **npheb* < *N-PHEB*, *myoñ* "tastes" instead of the expected **dmyoñ* < *G-MYAÑ*. More common are verbs that seem to be regularly inflected without the inflectional affix -s in the past stem—for example, *byuñ* "occurred" instead of the expected **byuñs* < *BYUÑ-s*, *na* "was sick" instead of the expected **nas* < *NA-s*, *btañ* "sent" instead of the expected **btañs* < *b-TAÑ-s*. Such regularly irregular verbs would be marked in the lexicon as exceptions to particular realization rules.

Note, however, that the -s suffix as a sign of the past stem is, in fact, REDUNDANT in intransitive verbs and in Class 2 and Class 4 of transitive verbs. In intransitive verbs, the absence of prenasalization distinguishes the past stem from the prenasalized present stem; in Class 2 and Class 4 transitive verbs, the presence of a *b-* prefix distinguishes the past stem from the *G-* prefixed future stem. And it is, indeed, extremely rare for the -s suffix to be regularly absent where it is not thus redundant. Where the suffix serves to differentiate a *b_____s* past stem from a *b_____* future stem it is, as far as I can tell, invariably preserved in the paradigm.¹⁹ It appears to be a rule of the language that only *θ-* prefixing intransitive verbs, and only transitive verbs that signal the future stem with a *G-* prefix, can regularly eliminate the past stem -s suffix.²⁰

¹⁹ It also seems generally true that, among Class 2 and Class 4 verbs, the past tense suffix -s is more likely to be missing when the present stem shows the traces of an earlier inflectional suffix -D—thus *DZUÑ* (*ndzin/bzuñ/gzuñ*) "grasp," *PYUÑ* (*nbyin/phyuñ/dbyuñ*) "remove."

²⁰ We can also note the similar redundancy of the -s suffix in many imperative stems, which are largely differentiated from the other stems through the operation of the rounding rule and aspiration rule. Imperatives are sufficiently rare in the texts, however, that it is hard

2. MORPHOPHONEMES ACROSS SYLLABLES

Some Tibetan PARTICLES—or grammatical words—undergo morphophonological changes conditioned, across syllable boundaries, by the final or postfinal of the immediately preceding syllable. In this text we write such morphophonemes as a capitalized portion of the syllable—for example, *-KYañ*, *-STE*, *-AM*, *-TU*. The capitalization indicates that the morphophoneme changes its phonetic shape according to certain rules, depending on what precedes it. There are three phonological processes which govern these changes—complete or partial articulatory assimilation; sonorance assimilation; and gravity dissimilation.²¹ These general processes—and how they affect the Tibetan particles—will be discussed in the following sections.

2.1. ARTICULATORY ASSIMILATION

In COMPLETE articulatory assimilation, a morphophoneme becomes the same as the final or postfinal of the immediately preceding syllable. For example, after preceding final *-d* the particle *-tu* becomes *-du* and the particle *-STE* becomes first *-Te* and then *-de*. Similarly, *-tu* becomes *-su* after preceding final or postfinal *-s*, and *-KYI* becomes *-gi* after preceding final *-g*. In PARTIAL articulatory assimilation, a morphophoneme becomes, in some articulatory feature, more similar than it was before to the final or postfinal of the immediately preceding syllable. For example, after a preceding final or postfinal fricative *-s*, the affricate particle *-TSiñ* partially assimilates in CLOSURE to become *-Siñ*, with a fricative rather than an affricate initial. Similarly, after a preceding final velar *-ñ*, the palatalized particle *-KYI* partially assimilates in PLACE to become *-gi*, dropping the palatal component of the initial. As we will see, with these particles, such articulatory assimilations are

to say whether the seemingly sporadic elimination of the *-s* suffix from the imperative stem is consistent enough in the case of particular verbs to constitute a regular irregularity.

²¹ Two additional morphophonemes will not be discussed here at any length. The morphophoneme *PH*, found in the derivational affixes *-PHo* and *-PHo-tshe*, becomes, rather straightforwardly, *-b* after preceding open syllables and *-p* after any preceding consonant final or postfinal—thus, for example, *blon-po*, *gnas-po*, but *dpa-bo*, *nu-bo*. The morphophoneme *P*, found in the derivational affix *-Pa*, becomes *b* after preceding final *-ñ*, *-r*, *-l* and open syllables, and becomes *p* after preceding final *-g*, *-d*, *-n*, *-b*, *-m*, and final or postfinal *-s*—thus *snañ-ba*, *nor-ba*, *ndul-ba*, *ltu-ba*, but *rig-pa*, *gsod-pa*, *bden-pa*, *sgrib-pa*, *sdom-pa*, *nus-pa*. I can make no phonological sense out of this distribution.

sporadic; they are, in fact, exceptions to other more general patterns we will discuss below.

One pattern of complete assimilation is perfectly regular, however: we find such patterns as *dag-go*, *rīñ-ño*, *yod-do*, *yin-no*, *thub-bo*, *npham-mo*, *sgyur-ro*, *nbul-lo*, and *lags-so*, as well as *dgao*, *nbrio*, *rgyuo*, *dgeo*, and *ngroo*. Here a vowel morphophoneme, which remains a vowel after a preceding open syllable, prefixes to itself the final or postfinal consonant of a preceding closed syllable. We will write the morphophonemes that follow this pattern as capitalized vowels—thus *-AM*, *-U*, *-E*, or, in the series above, *-O*. For example, we find not only *dag-go* < *dag-O* but also *sgyur-ram* < *sgyur-AM*, *smyig-gu* < *smyig-U*, and *brñas-se* < *brñas-E*.

In the oldest manuscripts, dating from the eighth and ninth centuries, there is little consistency in the writing of these forms. Thus we find, for example, <*ndrao*>, <*ndra-o*>, <*gyur-ro*>, <*khor-o*>, <*tshul-lo*>, and <*gsaro*>—all within the same manuscript. Such variations suggest that these particles were simple vowels in Proto-Tibetan, as indicated by such archaic manuscript spellings as <*rlag-o*> and <*rdzé-o*>, and that they became morphophonemes, completely assimilating to preceding consonants, only in Old Tibetan.²²

2.2. GRAVITY DISSIMILATION

The coordinative conjunction *-ste* “AND” becomes *-ste* after preceding final *-g*, *-ñ*, *-b*, *-m*, and open syllables; becomes *-te* after preceding final *-n*, *-r*, *-l*, and *-s*; and becomes *-de* after preceding final *-d*. Interestingly, the early grammatical treatise *Sum-tsu-pa*, traditionally attributed to Thon-mi Sam-

²² In the archaic manuscripts from Central Asia, we sometimes find complete assimilations to postfinal consonants which are not written—for example, <*rdzog-so*> for *rdzogs-so*, <*btsug-so*> for *btsugs-so*, and, presumably, <*nshald-do*> for *nshald-do*. Also, in these manuscripts and in self-consciously archaizing classical texts, we find the forms *-to* and *-tam*, apparently only after final *-n*, *-l*, and *-r*—for example, *smon-to*, *mkyen-tam*, *rtol-to*, *gyur-to*, *dar-tam*. This may originally have been a form of partial assimilation to an unwritten postfinal *-d*, but why in this case the assimilation was partial rather than complete I do not know; one is tempted to say that these forms continue to reflect the Proto-Tibetan reflex *-t* of the morphophoneme **T* after a preceding final *-d*, rather than the completely assimilated Old Tibetan reflex *d*. Note, in this regard, the regular occurrence of the frozen forms *kun-tu* < **kund-tu* (never *?kun-du*) “completely” and *pha-rol-tu* < **pha-rol-d-tu* (never *?pha-rol-du*) “beyond.”

bhoṭa, in verse 13, seems to know only the form *-ste*, and not *-te* or *-de*, while in the archaic manuscripts from Central Asia we find forms such as *<srabs-te>*, *<babste>*, and *<bab-ste>*, apparently indiscriminately. In fact, the morphophonological changes undergone by *ST*, as they finally appear in the classical texts, are primarily a form of GRAVITY dissimilation: *s* becomes *s* after an immediately preceding grave final; and it disappears, leaving behind *T*, after an immediately preceding acute final or postfinal, just as, for example, the inflectional past stem suffix *-s* does within the syllable. Then this relatively straightforward dissimilation is complicated somewhat by the fact that the resulting *T* becomes *t* everywhere except after immediately preceding final *-d*, where it completely assimilates to *d*. We can diagram this development as in the following table, with the changes from the Proto-Tibetan to the Old Tibetan system indicated by boldface type:

	GRAVE					ACUTE				
	-θ	-g	-ñ	-b	-m	-d	-n	-r	-l	-s
<i>ST</i>	<i>st</i>	<i>st</i>	<i>st</i>	<i>st</i>	<i>st</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>
*PROTO-TIBETAN										
	GRAVE					ACUTE				
	-θ	-g	-ñ	-b	-m	-d	-n	-r	-l	-s
<i>ST</i>	<i>st</i>	<i>st</i>	<i>st</i>	<i>st</i>	<i>st</i>	<i>d</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>
OLD TIBETAN										

Table 11. Gravity dissimilation in the morphophoneme ST

2.3. SONORANCE ASSIMILATION

Four morphophonemes—*Tš*, *KY*, *Y*, and *T*, which occur in the particles *-Tšin*, *-Tšig*, *-KYañ*, *-KYis*, *-KYi*, *-Tu*, and *Yañ*—are generally governed by a rule of assimilation to the SONORANCE of the final or postfinal of the immediately preceding syllable: they become voiced after preceding sonorants and become unvoiced after preceding obstruents. There is some reason to believe that, in

Proto-Tibetan, the rule was just that simple: there were just the three morphophonemes **Tš*, *KY*, and *T*, which took the forms **tš*, *ky*, and *t* after the preceding final obstruents *-g, -d, -b, and -s, and the forms **dž*, *gy*, and *d* after open syllables and the preceding final sonorants *-n̄, -n, -m, -r, and -l.²³

OBSTRUENT				SONORANT				
-g	-b	-d	-s	-n̄	-n	-m	-r	-l
<i>Tš</i>	<i>tš</i>	<i>tš</i>	<i>tš</i>	<i>z̄</i>	<i>z̄</i>	<i>z̄</i>	<i>z̄</i>	<i>z̄</i>
<i>KY</i>	<i>ky</i>	<i>ky</i>	<i>ky</i>	<i>gy</i>	<i>gy</i>	<i>gy</i>	<i>gy</i>	<i>gy</i>
<i>T</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>
*PROTO-TIBETAN								
OBSTRUENT				SONORANT				
-g	-b	-d	-s	-n̄	-n	-m	-r	-l
<i>Tš</i>	<i>tš</i>	<i>tš</i>	<i>tš</i>	<i>z̄</i>	<i>z̄</i>	<i>z̄</i>	<i>z̄</i>	<i>z̄</i>
<i>KY</i>	<i>g</i>	<i>ky</i>	<i>ky</i>	<i>g</i>	<i>gy</i>	<i>gy</i>	<i>gy</i>	<i>y</i>
<i>Y</i>	<i>ky</i>	<i>ky</i>	<i>ky</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>
<i>T</i>	<i>t</i>	<i>d</i>	<i>s</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>r</i>
OLD TIBETAN								

*Table 12. Sonorance assimilation in the morphophonemes *Tš*, *KY*, *Y* and *T**

This straightforward pattern apparently became complicated by several additional articulatory assimilations. The allophone **dž* of the morphophoneme *Tš* became, by the time of Old Tibetan, unstopped to *z̄* in all environments; after immediately preceding final or postfinal -s, the morphophoneme *Tš* partially assimilated in closure and took the form of the fricative *z̄*. The morphophoneme *T* completely assimilated to become *d* after immediately preceding final or postfinal -d and become *s* after immediately preceding final or postfinal -s. Interestingly, it also partially assimilated in closure to a pre-

²³ The archaic manuscripts from Central Asia show sporadic and inconsistent uses of forms such as *-džiñ*, *-džig* and *-gyañ*, which are possibly remnants of this older, hypothetical system.

ceding vowel, changing from a stop to the glide *r*, which presumably was the glide closest in place to the original dental stop. The morphophoneme *KY* split into two different forms. One of these, which we write as the morphophoneme *Y*, occurs only in the unbound connective *yañ*, which becomes *kyāñ* after all immediately preceding obstruents, and becomes *yañ*—presumably from Proto-Tibetan **gyañ*—after all immediately preceding sonorants. The other, which we write as the morphophoneme *KY*, occurs in the bound particles -*KYañ*, -*Kyis*, and -*Kyi*, where we find complete assimilation to *g* after preceding final -*g*, and partial assimilation to *g* after preceding final -*ñ*. And, interestingly, the morphophoneme partially assimilated in closure to a preceding vowel, changing from a palatalized stop to the palatal glide *y*. We can diagram this development as in Table 12, with the changes from the Proto-Tibetan to the Old Tibetan system again indicated by boldface type.

After preceding open syllables, the morphophonemes *KY* and *T*, which partially assimilate to become the glides *y* and *r*, and the morphophoneme *Y*, which normally takes the form *y* after any sonorant, can also take contracted forms which can be counted metrically as part of the preceding syllable.²⁴ Thus from the particle -*Tu* we find, for example, both *mtha-ru* and *mthar*, *bde-ru* and *bder*, *rgyu-ru* and *rgyur*, from the particle -*Kyi* both *bla-yi* and *blai*, *spyi-yi* and *spyii*, *blo-yi* and *bloi*, from the particle -*Kyis* both *rgyal-po-yis* and *rgyal-pos*, *blu-yis* and *blus*, *dge-yis* and *dges*, and from the particles -*KYañ* and *yañ* both *dga-yañ* and *dgaaiñ*, *nbri-yañ* and *nbriañ*, *ndre-yañ* and *ndreañ*.

²⁴ Alternation of initial *y*- and *θ*- is not unusual in Tibetan: note, for example, *yug-pa-ug-pa* "oats," *yud-pa~ud-pa* "moment," *yob-pa~ob-pa* "ditch," *YOÑ~OÑ* "come." In all these cases, given the basic disyllabic rhythm of the language, contracted forms are much more likely to be found after unstressed syllables, and the full syllabic forms—themselves unstressed--after stressed syllables.

1. PRELIMINARIES

1.1. SYNTAX AND MORPHOLOGY

As we have said, the SYNTAX of classical Tibetan describes the ways that the words of the language are strung together to make grammatical sequences. Thus it is WORDS from the lexicon that form the input to the syntax:¹ the syntax describes how these words are meaningfully collocated—how they become, not isolated words, but functioning units in a sentence. Thus *rgyal-po* “king,” *dgra* “enemy,” and *SAD* “kill” are words; arranged meaningfully they become, say, (*rgyal-po_{AGENCY} dgra_{PATIENT} SAD_{PAST}*)_{QUESTION} “Did the king kill the enemy?” The SYNTAX describes how the functions of each word are expressed: it gives the rule, for example, that the agency of a participant is realized as the particle *-kyis*, that the completion of the event is realized as the prefix *b-* and suffix *-s*, and that the interrogativity of the sentence is realized as the final particle *-Am*. Thus the output of the syntax in this example would be *rgyal-po-kyis dgra-θ b-SAD-s -Am*. It is the INFLECTIONAL MORPHOLOGY of the language that then adjusts the FORMS of the words in the sentence to become, finally, the recognizable classical Tibetan sequence *rgyal-pos dgra bsad-dam* “Did the king kill the enemy?”

1.2. OVERVIEW OF THE SYNTAX

The highest level discussed in the syntax is the DISCOURSE. The discourse will

¹ Words are thus primitives in the syntactic system, although, as we have seen, lexical words—nouns, adjectives, verbs—may themselves be derivationally complex. For example, the words *rdo-riñ* “long stone → monument” and *mam-par ſes* “particularly know → perceive” are both internally complex but, as words, are primitives to the syntax. Note, however, that the syntax does recognize internal structure in words: for example, the negative particle *mi-* “NOT” always immediately precedes the inflected verb stem even in an internally complex verb—thus *mam-par mi-ſes* “He does not perceive” and not *?mi-mam-par ſes*.

remain undefined, except to say that a discourse consists of one or more SENTENCES, and that such a discourse possesses a coherence unpossessed by a random collocation of sentences. The syntax postulates a discourse level because we find, within sentences, both connectives and omissions with extrasentential referents.

A sentence, in turn, consists of a PROPOSITION followed by a PERFORMANCE PARTICLE. The proposition contains the propositional content of the sentence; the performance particle indicates whether that content is intended as a statement, question, or command. For example, the sentences *rgyal-pos dgra mthoñ-ho* "The king sees the enemy," *rgyal-pos dgra mthoñ-nam* "Does the king see the enemy?" and *rgyal-pos dgra mthoñ-zig* "Let the king see the enemy!" are different performances of the same proposition *rgyal-pos dgra mthoñ*.²

Thou hast most traitorously corrupted the youth of the realm in erecting a grammar-school . . . It will be proved to thy face that thou hast men about thee that usually talk of a noun and a verb, and such abominable words as no Christian ear can endure to hear.

—William Shakespeare,
Henry IV, Part Two

Propositions can be combined in two different ways. Two or more propositions can be connected together on the same level with any of several CONJUNCTIONS—such as *-Tśin* "AND," *-Am* "OR," *-Yañ* "BUT"—to form a single

² Occasionally further performance particles express nuances of threat, warning, or doubt. Moreover, a sentence—as opposed to a proposition—may be preceded or followed by a VOCATIVE. A vocative does not express a participant in the event asserted by the proposition, but rather indicates the person to whom the sentence is addressed; the vocative is thus not part of the propositional content of the sentence. A vocative is an unmarked nominal phrase whose function as a vocative is indicated by its position and semantic content. Finally, in classical Tibetan there are also such "minor sentences" or "sentence fragments" as will here be called EXCLAMATIONS. An exclamation is a partial sentence that functions as an autonomous unit and can take the place of a sentence in a discourse or embedded in a proposition.

proposition; such a complex proposition may then become a sentence by the addition of a performance particle. Or one proposition can be embedded at a lower level within another proposition by being NOMINALIZED—that is, turned into a nominal by the affixation of any of several nominalizing particles. For example, the proposition *bla-mas bgegs btul* "The lama tamed the demon" can be nominalized by the nominalizing particle *-pa* to become *bla-mas bgegs btul-ha* "the taming of the demon by the lama." Such a nominalized proposition can then occur anywhere a nominal can occur. It can be the head of a nominal, as in *rgyal-pos [bla-mas bgegs btul-ha] mthon* "The king saw the taming of the demon by the lama"; or it can be a COMPLEMENT that modifies a nominal or verbal head, as in *[bla-mas bgegs btul-ha]-i sgruñ* "the tale of the taming of the demon by the lama," or a RELATIVE that modifies a nominal head, as in *[bla-mas bgegs btul-ha]-i bgegs* "demon which the lama tamed."

A proposition consists of an EVENT preceded by the various PARTICIPANTS in that event. The event is what happened; the participants are those to whom it happened, who made it happen, where it happened, with what or with whom it happened, and so on. The event is expressed as a VERB PHRASE carrying its TENSE; each participant is expressed as a NOMINAL PHRASE with a following ROLE PARTICLE to indicate the particular participant role it plays in the proposition. For example, in the proposition *nags-la rgyal-po-s sñi-θ btubs* "The king chopped wood in the forest," the fact that the asserted event is now PAST is signaled by the past tense affixes *-b-* and *-s* attached to the verb *TUB* "chop." Similarly, the participant *nags* "forest" is signaled as the LOCUS of the event by the role particle *-la*, the participant *rgyal-po* "king" is signaled as the AGENCY of the event by the role particle *-s*, and the participant *sñi* is signaled as the PATIENT of the event by the role particle *-θ*. There are five primary participant roles in the classical language—PATIENT, AGENCY, LOCUS, SOURCE, and ACCOMPANIMENT.

A VERB PHRASE is a verb with its optional specifiers and modifiers; a NOMINAL PHRASE is a nominal with its optional specifiers and modifiers. The specifier of a verb in a verb phrase is the optional NEGATION, expressed by the negation particle *mi-* "NOT"; the specifiers of a nominal in a nominal phrase are DELIMITERS and QUANTIFIERS.³ The modifier of a verb in a verb phrase

³ There are two different types of delimiter in the classical texts—DETERMINERS and REFLEXIVES. Either or both may occur, but, where both occur, two conditions must be met: the determiner must precede the reflexive, and the determiner must be the type of

we will call an ADVERB; the modifier of a nominal in a nominal phrase we will call an ADNOMINAL. Nominals other than nominalized propositions consist of various combinations of adjective phrases and nouns. An ADJECTIVE PHRASE consists of an adjective and its optional INTENSIFIER, such as *śin-tu* "very." Verbs, adjectives, and nouns are primitives in the lexicon.

Adverbs and adnominals are themselves nominal phrases, followed, respectively, by the adverb particle *-tu* and the adnominal particle *-kyi*. This means that, in both cases, successive embeddings can take place—for example, *mgyogs-po-i rta* "fast horse" *r্যal-po-i mgyogs-po-i rta* "the king's fast horse" *r্যa-nag-gi r্যal-po-i mgyogs-po-i rta* "the king of China's fast horse," and *mgyogs-po-r SLEB* "arrive quickly" *nañ-pa-r mgyogs-po-r SLEB* "arrive quickly in the morning" *spyi-r nañ-pa-r mgyogs-po-r SLEB* "generally arrive quickly in the morning." Intensifiers, such as *śin-tu* "very" or *yōñ-su* "completely" are a special subset of adverbs.

The following sections will describe the syntax of classical Tibetan from the bottom up—that is, first describing nominals, then phrases, then simple propositions, then complex propositions, then sentences, and finally some portions of the syntax beyond the sentence level.

I.3. THE TELEGRAM PRINCIPLE

1.3.1. The elimination of redundancy

Classical Tibetan is above all a written rather than a spoken language; freed from the constraints imposed by the transience and noise of spoken messages, it can be highly elliptic, rather like an English telegram; it is, like a telegram, a shortened form of what would otherwise be a more redundant communication. For example, the telegram *John arriving airport Tuesday send car* achieves

determiner we call a definite determiner. Similarly, we find in the classical texts four different types of quantifier: the nominal and its delimiter may be followed by one NUMERAL, one PLURAL, one TOTALIZER, and one SELECTOR—always in that order. For example, in the nominal phrase *bla-ma de-dag kun* "all those lamas," the nominal *bla-ma* "lama" is followed by the determiner *de* "THAT," the plural *-dag* "MORE THAN ONE," and the selector *kun* "ALL"; in the nominal phrase *r্যal-po ña gñis* "we two kings," the nominal *r্যal-po* "king" is followed by the determiner *ña* "FIRST PERSON" and the numeral *gñis* "two."

brevity by eliminating the parenthesized redundancies from the more normal *John (is) arriving (at the) airport (on) Tuesday (so) send (a) car (to meet him there)*. Similarly, we propose a classical Tibetan TELEGRAM PRINCIPLE: redundant elements of the message may be—and frequently are—omitted. This principle may override syntactic rules of the language.

1.3.2. Old and new information

A proposition may contain a number of different sorts of information: it may refer to entities introduced for the first time into the discourse; or entities which could be inferred from a discourse entity already introduced; or entities which are obviously part of the discourse situation, although not previously mentioned; or entities which were already introduced into the discourse and are now being referred to again, either immediately or after some stretch of intervening text. We will not discuss these distinctions in detail; let it suffice to say that these different sorts of information are points on a continuum that ranges, simply, from OLD INFORMATION to NEW INFORMATION. Old information is recoverable—from the preceding text, from inference, from knowledge of the world. Under the Telegram Principle, old information may, depending on its recoverability, be sufficiently redundant to be omitted.⁴

Any participant or group of participants can be old news in a proposition. In a discourse about a king, for example, the participant *rgyal-po* "king" might be inferable—and thus redundant—in any such proposition as *RGYAL-PO-Ø ñal* "THE KING sleeps," *RGYAL-PO-s dgra bsad* "THE KING slew the enemy," *dgra-s RGYAL-PO-Ø bsad* "The enemy slew THE KING," *RGYAL-PO-la nphrul-gyi ral-gri-Ø yod* "THE KING has a magic sword," and so on.

Under the Telegram Principle, anything recoverable—old information, the thefe of a proposition—can be left out, for the reader to supply from the preceding text or from general knowledge. Thus a proposition may consist only of the rheme, with the theme considered redundant and omitted. Take, for example, the two propositions *rgyal-pos bgegs gsod* "The king slays

⁴ One type of old information is of particular importance. Every proposition is ABOUT something; the something that a proposition is about we will call its THEME. What is said about the theme—the news the speaker supplies about it—is the RHÈME. A theme may be constant across any number of propositions; once a theme has been established, it becomes, of course, old information.

demons" and *bla-mas bgegs ndul* "The lama tames demons," and join them together with the conjunction *-yañ* "BUT"—thus *rgyal-pos bgegs gsod-kyañ bla-mas ndul* "The king slays demons, but the lama tames them." Clearly, read

*"WHEN YOU COME TOMORROW, BRING MY FOOTBALL BOOTS.
ALSO, IF HUMANLY POSSIBLE, IRISH WATER SPANIEL. URGENT.
REGARDS, TUPPY."*

"What do you make of that, Jeeves?"

"As I interpret the document, sir, Mr. Glossop wishes you, when you come tomorrow, to bring his football boots. Also, if humanly possible, an Irish water spaniel. He hints that the matter is urgent, and sends his regards."

"Yes, that's how I read it, too. . . ."

—P. G. Wodehouse,
The Ordeal of Young Tuppy

together, what both propositions are about is how demons are handled by different people. Thus the second appearance of *bgegs* "demon" is redundant; it is old information; it can be left out. In the English translation of the second conjoined proposition, the pronoun *them* corresponds to the ABSENCE of a patient participant in Tibetan.

But note, conversely, that such omissions themselves convey information. Where a participant is omitted from a proposition, the absence is processed as meaning that the identity of the missing participant is old information, and hence recoverable from context; the omission is a signal to scan context or general knowledge to supply what is missing.⁵ In fact, it is just such omissions—among other devices—that differentiate a coherent series of propositions from a mere agglomeration of units. The constant back-reference of a text is part of what makes it cohesive. The skill of the author lies in part in how he

⁵ A passage or work we would describe as TERSE contains a significant number of such omissions. Such a style may be experienced as difficult to process, since its reading requires constant back-reference to check the identity of missing participants.

manipulates the cohesiveness of his text—the amount of back-reference he requires, the old information he repeats, and the density of the new information he supplies. The skill of the reader lies in part in the ability to unravel what the author has thus knit up.

1.3.3. The omission of role particles

Every participant in a Tibetan proposition is marked in three ways for its particular participant role—by its role particle, by its position, and by its semantic content. For example, in the proposition *rgyal-pos rdza-ma btšag* “The king broke the pot,” the participant *rgyal-po* “king” is marked as the agency of the act of breaking by its leftward position in the proposition, by its role particle *-s*, and by its semantic content—that is, a human capable of agency. The participant *rdza-ma* “pot” is marked as the patient of the act of breaking by its position just before the verb, by its role particle *-Ø*, and by its semantic content—that is, an inanimate object incapable of agency, but quite capable of being broken.

But, under the Telegram Principle, redundant elements of the message may be—and frequently are—omitted. In the proposition *rgyal-pos rdza-ma btšag* “The king broke the pot,” the role particle *-s* is redundant, because it supplies information given as well by position and by semantic content. There is little ambiguity in the proposition *rgyal-po rdza-ma btšag*, which must still—except under the most peculiar textual constraints—be processed as “The king broke the pot.”

Since the role particle uniquely specifies the participant role of the participant, the role particle can be the clearest marker for participant role. When the role particle is omitted, the position and semantic content of the participant are clues to its role in the proposition; when the role particle is present, the author may then more freely manipulate the other two markers for participant role—position and semantic content.

Where participants are marked with their role particles, an author is free to change the ORDER in which these participants appear in the proposition. Such differences in participant order convey information about the place of particular participants in the discourse, with THEMATIC participants appearing for the first time shifted to the left of the other participants: compare, for

example, *rgyal-pos rdza-ma btṣag* "The king broke the pot" with *rdza-ma rgyal-pos btṣag* "The pot—the king broke it."⁶

Conversely, the agency through which an event occurs is often perceived as thematic, since what people talk ABOUT most often are the actions of other people. Thus, where a participant is not marked with a role particle, the leftward participant is often processed as the agency, and the participant closest to the verb as the patient, where semantically possible: the otherwise ambiguous *rgyal-po bla-ma mthoñ* would normally be processed as "The king sees the lama" unless there are good textual reasons to read it otherwise.⁷

Where participants are unambiguously marked with their role particles, an author has some freedom to manipulate their SEMANTIC CONTENT, either through such figures of speech as metaphor or metonymy, or through the creation of a world different from the normal one. Such a world might be created by, say, the proposition *rdo-sku-s rgyal-po-ø mthoñ* "The stone image sees the king" in a discourse about a miraculously animated statue.

When an author, under the Telegram Principle, deletes too much information from a proposition, that proposition becomes ambiguous. An ambiguous proposition offers a choice of readings. Ambiguity is thus the opposite of redundancy: ambiguity is an insufficiency of information, while redundancy is a surfeit. Such ambiguous propositions can sometimes be disambiguated by extralinguistic knowledge of what is normal and expected in the world. In fact, sometimes more sophisticated knowledge is necessary. Whether the proposition *sgrub-pa srid-pa skyed* should be read as "Ignorance creates the

⁶ Once such a theme is established, of course, it becomes old information—that is, it is recoverable from context—and can be telegraphically omitted, as in, say, *rdza-ma rdza-mkhan-gyis bros rgyal-pos btṣag* "As for the pots, the potter made them and the king broke them."

⁷ Another way of saying almost the same thing is to say that normal Tibetan word order is AGENCY-PATIENT-VERB. But note that semantic content still limits the reading of, say, *rdo-sku rgyal-po mthoñ* to "The king sees the stone image," despite the order of its participants, except under the most peculiar textual constraints—that is, assuming a normal world of sightless stone statues unless the text instructs us otherwise. Thus the proposition *rdo bla-ma btṣag* would normally be processed as "The lama broke the stone" (or, perhaps better, "The stone—the lama broke it") despite the fact that the order of participants suggests the reading "The stone broke the lama" (or "(Someone) broke the lama with a stone") and its associated image of an unfortunate and perhaps frozen lama.

world" or "Ignorance—the world creates it" turns on a fine point of theology; and it is a question of literary scholarship which reading the author intended.

2. NOMINALS

2.1. DEFINITION

A NOMINAL is any lexical word or combination of words that can occur before a determiner such as *ndi* "THIS" in a nominal phrase. Nominals thus include not only NOUNS (*rta* "horse" *rta ndi* "this horse") and ADJECTIVES (*bzañ-po* "virtuous" *bzañ-po ndi* "this virtue"), but also COMBINATIONS of nouns and adjectives (*rta* "horse" *tshen-po* "great" *rta tshen-po ndi* "this great horse") and even entire NOMINALIZED PROPOSITIONS (*rgyal-pos rta tshen-po btul* "The king tames the great horse" *rgyal-pos rta tshen-po btul-ba ndi* "this taming of the great horse by the king").

2.2. HEAD AND MODIFIER

A nominal is generally processed as having a HEAD—the leftmost component of the nominal—followed by one or more MODIFIERS.⁸ Either a noun or an adjective can be the head of a nominal, and either a noun or an adjective can be the modifier of the head.⁹

The modifier functions to restrict the head in terms of some qualifying

⁸ This structure is internal to the nominal; the nominal as a whole can then be a head modified by a preceding ADNOMINAL, which is a nominal phrase with the bound adnominal particle -*KYI*. For example, in the nominal phrase *bla-ma tshen-po dei phreñ-ba gser-po* "that great lama's golden rosary," the NOMINAL *phreñ-ba gser-po* "golden rosary"—consisting of the HEAD *phreñ-ba* "rosary" and its MODIFIER *gser-po* "golden"—is in turn modified by the preceding ADNOMINAL *bla-ma tshen-po* "that great lama"—a nominal phrase consisting of the nominal *bla-ma tshen-po* "great lama" and the determiner *de* "THAT," and the nominal *bla-ma tshen-po* "great lama" consisting in turn of the head *bla-ma* "lama" and its modifier *tshen-po* "great."

⁹ We may note that a Tibetan adjective head must generally be TRANSLATED into English as an abstract noun—thus *bzañ-po* "virtuous" *śin-tu bzañ-po* "very virtuous" *bzañ-po ndi* "this virtue," *gtum-po* "furious" *śin-tu gtum-po* "very furious" *gtum-po ndi* "great fury." This is a peculiarity of English and not of Tibetan.

feature: the modifier answers the question "What type of —?" with reference to the head. All nominals refer to a set of entities; the set designated by a modified head is thus a proper subset of the set designated by the head alone. For example, in the nominal *bla-ma bzañ-po* "virtuous lama" the modifier *bzañ-po* "virtuous" restricts the head *bla-ma* "lama," and answers the question "What type of lama?" The modified head refers to the set of virtuous lamas—a proper subset of the set designated by the head alone.

2.3. BASIC PATTERNS

In Tibetan the leftmost component of the nominal is generally processed as the head and components to the right as its modifier. Since a noun or adjective head can be followed by a noun or adjective modifier, there are four basic patterns of head and modifier. A NOUN can be modified by an ADJECTIVE, as in *sñags-pa nag-po* "black magician"; a NOUN can be modified by a NOUN, as in *bla-ma sñags-pa* "lama who is a magician"; an ADJECTIVE can be modified by an ADJECTIVE, as in *nag-po tshen-po* "great blackness"; and—although certainly not common—an ADJECTIVE can even be modified by a NOUN, as in *nag-po sems* "blackness which is his mind."

2.4. EXTENDED PATTERNS

Since a modified head is itself a nominal, a combined head and modifier may in turn be a head or modifier within a larger nominal. The processing of such larger nominals generally proceeds through successive bifurcations of head and modifier. For example, in the nominal *bla-ma bzañ-po tshen-po* "great virtuous lama" the nominal *bla-ma bzañ-po* "virtuous lama"—itself a head and modifier—serves as a leftmost head modified by the adjective *tshen-po* "great." Similarly, in the nominal *bla-ma tshen-po sprul-sku bzañ-po* "great lama who is a virtuous incarnation" the nominal *bla-ma tshen-po* "great lama" serves as a head modified by the nominal *sprul-sku bzañ-po* "virtuous incarnation."¹⁰

¹⁰ We may note here briefly that a nominal such as *bla-ma sprul-sku bzañ-po* is ambiguous between the alternative readings (*bla-ma (sprul-sku bzañ-po)*) "lama who is a virtuous incarnation" and (*(bla-ma sprul-sku) bzañ-po*) "virtuous lama-who-is-an-incarnation"; compare the similar ambiguity of English *old men and women*. Such ambiguity arises, of

Such combinations of head and modifier can be expanded to the limits of stylistic tolerance. A nominal such as *bla-ma bzañ-po tshen-po mal-nbyor-pa mi-la ras-pa sprul-sku rin-po-tshe* "great virtuous lama who is the yogin the precious incarnation Mi-la the cotton-clad" perhaps approaches but does not exceed these limits. The nominal is thus the EXPANDABLE constituent of the nominal phrase: the various specifiers that follow the nominal are added only after such expansion is complete.

2.5. ADJECTIVES

An adjective—like a verb—may be preceded by one or more of several INTENSIFIERS, primarily *śin-tu* "very" and *ha-tsañ* "very," but including as well such adverbs as *lhag-par* "especially," *rab-tu* "particularly," *te-bor* "really," *yoñs-su* "completely," *mišhog-tu* "extremely," *kun-tu* "entirely."

Tibetan adjectives are not regularly inflected for degree, as in English. Comparisons are made simply with the source role particle *-las*, as in *rgyal-po-las tshen-po* "greater than the king," *na-niñ-las bzañ-po* "more beautiful than last year"; sometimes a particle *-pas*, whose origin I do not know,¹¹ is used instead of the source particle *-las* to mark the object of comparison, as in *nbras-ldzoñ-bas grañ-ba* "colder than Sikkim," *sña-ma-bas phyug-pa* "richer than before." In this, adjectives are not different from verbs; note, for example, *gžan-las NPIHAG* "be nobler than others," *rta-bas TSHE* "be bigger than a horse."

Again, in some texts, a formative *yañ-* "STILL, YET, MORE" can give an adjective a comparative sense—thus *tshuñ-ba* "small" *yañ-tshuñ* "still smaller," *dga-ba* "happy" *yañ-dga* "yet happier," *bzañ-po* "good" *yañ-bzañ* "even better." Thus, too, in the epic, the hero Ge-sar, in the lowly form of Džo-ru, sings *ma-ñan ngog-moi džo-ru ña, skye-ñan nañ-nas yañ-ñan red* "I, Džo-ru, of the miserable mother Ngog-mo, am among those of miserable birth yet more miserable."

course, because the process of bifurcation into head and modifier can begin at either of two places in the nominal.

¹¹ This comparative particle *-pas* is certainly not the same as *-pa-s*, the formative *-Pa* "NOMINAL" plus the agency role particle *-kyis*.

A similar formative, *dže-* "MORE AND MORE" turns a stative verb stem expressing a particular quality into a stative verb expressing the increase of that quality over time—thus *MAÑ* "be many" *dže-MAÑ* "be more and more," *GSAL* "be clear" *dže-GSAL* "be ever more clear," *PHRA* "be thin" *dže-PHRA* "be thinner and thinner," as in *dže-gsal-du soñ* "It has become increasingly clear," *dže-mañ ngro* "They go on becoming more numerous." Such progressive comparatives are quite frequently reduplicated—thus *dže-TŠHE dže-TŠHE* "be bigger and bigger," *dže-MTHO dže-MTHO* "be higher and higher," *dže-BZAÑ dže-BZAÑ* "be better and better," and even *dže-TŠHUÑ dže-ÑUÑ* "be smaller and smaller," as in *dže-bzañ dže-bzañ-du soñ* "She became ever more beautiful," *tšhu-phuran mañ-po dže-tshe dže-tshe-la rgyas* "Many little streams grew bigger and bigger, and became swollen." This formative is old in Tibetan; note the following few verses, dating to the mid-seventh century and attributed to the queen Sad-mar-kar, from an archaic chronicle found near Tun-huang:

<i>dže-ñe ni dže-ñe-na yar-pa ni dguñ-dañ ñe dguñ-skar ni si-li-li</i>	Nearer yes: nearer Yar-pa yes: is near the sky Stars of the sky yes: <i>si-li-li</i>
<i>dže-ñe ni dže-ñe-na sñur-ba ni tshab-dañ ñe gyur-sram ni pyo-la-la</i>	Nearer yes: nearer Sñur-ba yes: is near the water The otter yes: <i>pyo-la-la</i>
<i>dže-ñe ni dže-ñe-na mal-tro ni klum-dañ ñe skyi-bser ni spu-ru-nu</i>	Nearer yes: nearer Mal-tro yes: is near to Klum The cold wind yes: <i>spu-ru-nu</i>

Superlatives are formed in several ways. The object of comparison, marked with *-las* or *-pas*, may simply be made very broad—thus *thams-tšad-las rtsubmo* "rougher than all/roughest of all," *kun-las sphags-pa* "nobler than all/noblest of all." Or the adjective may be applied to one member of a specified group—for example, *dge-sloñ-gi nañ-nas bsod-pa* "pleasing from among the monks/most pleasing of the monks." Again, adjectives are here not different from verbs; note, for example, *kun-las MDZES* "be most beautiful of all," *kun-gyi nañ-nas BTSOG* "be nastiest among them all."

Alternatively, the formative *-śos* "MOST" gives an adjective a superlative sense—thus *rgan-pa* "old" *rgan-śos* "oldest," *mkhas-pa* "wise" *mkhas-śos* "wisest," *riñ-po* "long" *riñ-śos* "longest," *tshé-ba* "great" *tshé-śos* "greatest,"

as in *btsun-mo lha-brgyai tshuñ-sos* "the youngest of the five hundred ladies," *nad tshé-sos rgad-nad* "the greatest disease of all, which is the disease of old age."

Finally, we should take note of the verb *DRAGS* "be too much," as in *lto-za-Ø drags-na ma-žu-bai nad yoñ* "If your food is excessive, there will be the disease of indigestion." Where the patient of this verb is a nominal with an adjective head, - the verb indicates an excessive amount of the quality expressed by the adjective, as when Sa-skyā pāñjīta writes, in his *Legs-par bšad-pa rin-po-tshai gter, gnas ma-yin-pai dul drags-na, thams-tšad-kyis ni bkol-bar nygur* "If you are too gentle in the wrong circumstances you will be made a servant by everyone."

2.6. HEADLESS MODIFIERS

Sometimes a nominal is processed as a modifier without a preceding head. Where the head of the nominal has been established by the context, it may fall under the operation of the Telegram Principle and be omitted as redundant, leaving behind a headless modifier. In such cases English inserts a dummy head such as *one*, while Tibetan simply leaves the leftmost position vacant—thus *rta tshen-po* "great horse" Ø *tshen-po* "great one," *g.yu sñon-po* "blue turquoise" Ø *sñon-po* "blue one," *bla-ma bzañ-po tshen-po* "great virtuous lama" Ø *bzañ-po tshen-po* "great virtuous one." Similarly, a head can be omitted where it can be recovered not from the preceding text but from common assumptions about the world: in *tshen-pos sbyin-pa gtoñ* "The great give gifts," or *bzañ-pos byams-pa sgom* "Virtuous people contemplate love," the nominals *tshen-po* "great" and *bzañ-po* "virtuous" are read as headless modifiers whose absent head has an indefinite reference to people in general.

This means, too, that a nominal such as *gtum-po* can be processed as being either an ADJECTIVE HEAD (thus "fury") or a HEADLESS ADJECTIVE MODIFIER (thus "furious one"). Such structural ambiguity is disambiguated only by the context in which the nominal occurs. For example, compare the two propositions *rgyal-pos bzañ-po tshen-po bsad* "The king slew the great virtuous one" and *rgyal-pos bzañ-po tshen-po thob* "The king attained great virtue," where the verbs *SAD* "slay" and *THOB* "attain"—requiring animate and abstract patients respectively—determine the reading of the nominal.

3. PHRASES

Events and their participants are expressed, respectively, by verb and nominal PHRASES; it is these phrases which then carry the markers for tense and role. A NOMINAL PHRASE is a nominal with its optional specifiers and modifiers; a VERB PHRASE is a verb with its optional specifiers and modifiers. We will call the modifier of a nominal within the nominal phrase an ADNOMINAL, and the modifier of a verb within the verb phrase an ADVERB.¹²

3.1. NOMINAL PHRASES

3.1.1. Simple nominal phrases

3.1.1.1. Specifiers

In a nominal phrase, a nominal may be followed by from zero to six SPECIFIERS. A solitary nominal such as *bla-ma* "lama" or *bla-ma sñags-pa nag-po tshen-po* "lama who is a great black magician" refers vaguely to any or all of the entities within the set it defines. The specifier functions to SPECIFY THE SCOPE of this reference, as in, say, *bla-ma ndi* "THIS lama," *bla-ma-žig* "SOME lama," *bla-ma lña* "FIVE lamas," *bla-ma-dag* "MORE THAN ONE lama," *bla-ma gañ* "ANY lama," *bla-ma kun* "ALL lamas."

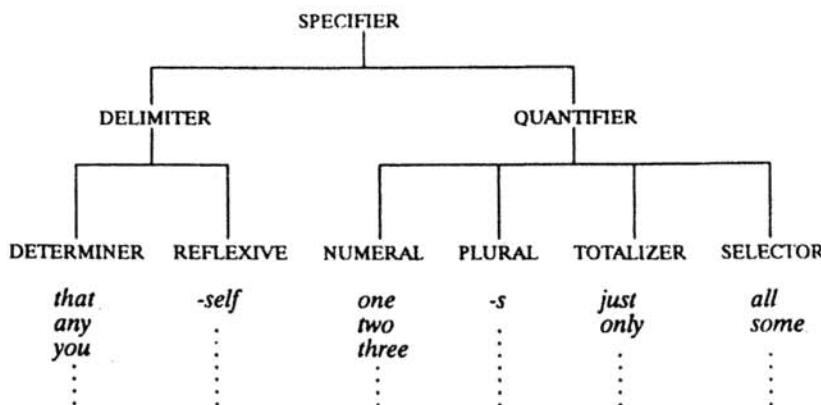
Some specifiers, such as *this* or *that*, specify WHICH member or members of the set denoted by the nominal are referred to: we will call these DELIMITERS.

¹² Adverbs and adnominals are interestingly parallel in Tibetan. They are both nominal phrases, of any length and complexity, marked respectively with the adverb or adnominal particle; adverbs and adnominals are thus both phrases embedded within phrases—the adverb within a verb phrase and the adnominal within a nominal phrase—to the left of the head word; in both cases successive embeddings can take place to the limits of stylistic tolerance. Compare, for example, *mgyogs-po-i rta* "fast horse" *rgyal-po-i mgyogs-po-i rta* "the king's fast horse" *rgya-nag-gi rgyal-po-i mgyogs-po-i rta* "the king of China's fast horse" with *mgyogs-po-r SLEB* "arrive quickly" *nañ-pa-r mgyogs-po-r SLEB* "arrive quickly in the morning" *spyi-r nañ-pu-r mgyogs-po-r SLEB* "generally arrive quickly in the morning," and so on.

Semantically both adverbs and adnominals modify their following verb or nominal head. In both cases, the modifier limits or qualifies the head by adding information about it, and answers the question "What sort of—?" with reference to the head. In both cases, the modified head designates a proper subset of the set designated by the head alone.

Other specifiers, such as *five* or *some*, specify HOW MANY members of the set denoted by the nominal are referred to: we will call these QUANTIFIERS. In classical Tibetan, delimiters and quantifiers are both optional parts of the nominal phrase; but where either or both occur, their order is fixed as NOMINAL-DELIMITER-QUANTIFIER.

There are, furthermore, two different types of delimiter in the classical texts—DETERMINERS and REFLEXIVES. Either or both may occur, but, where both occur, two conditions must be met: the determiner must precede the reflexive, and the determiner must be a DEFINITE determiner, as will be discussed below. Similarly, we find in the classical texts four different types of quantifier: the nominal and its delimiter may be followed by one NUMERAL, one PLURAL, one TOTALIZER, and one SELECTOR—always in that order. The complete array of available specifiers may be diagrammed as follows:



Thus the minimum nominal phrase consists simply of a NOMINAL, while the maximum nominal phrase consists, at least theoretically, of the sequence NOMINAL-DETERMINER-REFLEXIVE-NUMERAL-PLURAL-TOTALIZER-SELECTOR. Whether such a maximum sequence occurs (and I certainly have not seen it anywhere, or I would display it here proudly) is a matter of stylistic constraints on syntax; but between these two extremes we find nominal phrases with various combinations of these constituents, which occur in the order set forth above—thus *bla-ma ndi-dag* “these lamas” but not *?bla-ma-dag ndi*, *rta-dag-rnams* “horses” but not *?rta-rnams-dag*, *rgyal-po līa-žig* “some five kings” but not *?rgyal-po-žig līa, sñags-pa de-dag kün* “all those magicians” but

not *?sñags-pa kun de-dag mhas-pa gañ-žig* "any wise man" but not *?mhas-pa-žig gañ*.

The specifier is the last component of a nominal phrase. We therefore sometimes find a specifier—usually *de* "THAT" or *-TSig* "ONE/SM"—used simply as a PHRASE-CLOSER, to signal the end of a nominal phrase which has the invisible *-Ø* role particle, especially where that phrase, or the next, is long and complex. Conversely, we frequently find HEADLESS SPECIFIERS, where the nominal head has been omitted by the Telegram Principle—for example, *bla-ma de-dag* "those lamas" *Ø de-dag* "those ones," *dge-sloñ gañ-žig* "any monk" *Ø gañ-žig* "any one," *rgyal-po khoñ* "he the king" *Ø khoñ* "he," *dgon-pa rañ* "the same monastery" *Ø rañ* "the same one," *blun-po gsum-žig* "some three fools" *Ø gsum-žig* "some three ones," *sems-tšan de-dag thams-tšad* "all those sentient creatures" *Ø de-dag thams-tšad* "all those ones," and so on.

3.1.1.1.1. DELIMITERS

3.1.1.1.1.1. DETERMINERS

A nominal may be followed by a single DETERMINER which delimits its scope by specifying which of the named entities is referred to. Such specification in Tibetan may, first, be either DEFINITE or INDEFINITE—that is, may specify the scope of the reference as some determinate subset, as in *skyes-bu de* "THAT person," or as some indeterminate subset, as in *skyes-bu gañ* "SOME/ANY person." Second, definite determiners may specify the scope of that determinate subset either in terms of its SPATIAL RELATION to the speaker, as in *dgon-pa ya-gi* "the monastery UP THERE," or in terms of its SPEAKING ROLE in the discourse, as in *mal-sbyor-pa khyod* "YOU the yogin." We therefore distinguish SPATIAL DETERMINERS from PERSONAL DETERMINERS. Both personal determiners and indefinite determiners, as we shall see, bear some resemblance to English pronouns.

3.1.1.1.1.1.1. Definite determiners

3.1.1.1.1.1.1.1. Spatial determiners

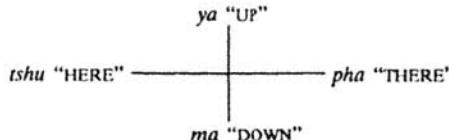
SPATIAL determiners are of two sorts. First, there are three VERTICAL determiners—*ya-gi* "UP THERE," *ma-gi* "DOWN THERE," and *pha-gi* "ACROSS

THERE HORIZONTALLY." These determiners delimit the preceding nominal in terms of its DECLINATION from the speaker—thus *la ya-gi* "the pass up there," *luñ ma-gi* "the valley down there," *sgañ pha-gi* "the ridge over there."¹³ There are two HORIZONTAL determiners—*ndi* "THIS" and *de* "THAT." These determiners delimit the preceding nominal in terms of its NEARNESS to the speaker—thus *bla-ma ndi* "this lama here," *bla-ma de* "that lama there." Such nearness may be metaphorically extended to include temporal and textual proximity as well—for example, *tshig ndi* "this word (just spoken)."

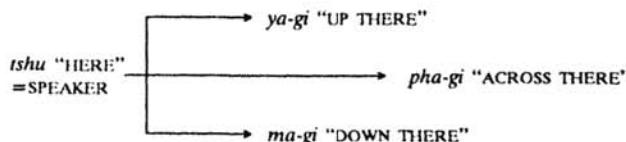
3.1.1.1.1.1.2. Personal determiners

Classical Tibetan PERSONAL DETERMINERS such as *ña* "I" and *khyod* "you" can be seen to occur in exactly the same syntactic slots as such nonpersonal determiners as *ndi* "THIS" and *de* "THAT"—for example, *bla-ma de* "that lama" *bla-ma khoñ* "he the lama," *mi de-mams* "those men" *mi khyod-mams* "you men," *dge-sloñ ndi gñis* "these two monks" *dge-sloñ ña gñis* "we two monks," *mthu-tshen yod-pa de* "the one who has magic power" *mthu-tshen yod-pa ña* "I who have magic power." Personal determiners, however, are

¹³ The word *pha* "that side" is usually paired semantically with the word *tshu* "this side"—for example, *pha-rol* "the other side" *tshu-rol* "this side," *pha-rol-pa* "adversary" *tshu-rol-pa* "ally." Similarly, *ya* "up" is semantically paired with *ma* "down"—for example, *ya-mišhu* "upper lip" *ma-mišhu* "lower lip," *ya-them* "lintel" *ma-them* "sill," *ya-thog* "ceiling" *ma-thog* "floor," *ya-rabs* "upper class" *ma-rabs* "lower class," *ya-so* "upper teeth" *ma-so* "lower teeth," *yar-ño* "waxing moon" *mar-ño* "waning moon." This double opposition may be charted as follows:



However, when these oppositions are exploited as determiners, presumably *tshu* represents the position of the speaker, and the oppositions yield a three-way vertical distinction:



syntactically defined as a class by their occurrence before the plural *-tṣag* (thus *ñā-dag* “we” *ndi-dag* “these,” *ñā-tsho* “we” *ndi-tsho* “these,” *ñā-tṣag* “we” but not *?ndi-tṣag*, as well as such forms as *khoñ-tṣag-mams* “they” parallel to *de-dag-mams* “those”), although in the later classical texts personal determiners tend to be pluralized most frequently by the selector *-mams*.

3.1.1.1.1.1.2.1. UNMARKED AND SPECIALIZED FORMS There are three personal determiners we can call UNMARKED—the first person determiner *ñā* “I,” the second person determiner *khyod* “you,” and the third person determiner *kho* “he.” Each one has a corresponding HONORIFIC—the first person honorific determiner *ñed*, the second person honorific determiner *khyed*, and the third person honorific determiner *khoñ*. In addition, we find the first person ELEGANT determiner *bdag* and the second person elegant determiner *ñid* (and thus the plural forms *bdag-tṣag* and *ñid-tṣag*). We can schematize these determiners as follows:

PERSON	UNMARKED	HONORIFIC	ELEGANT
1	<i>ñā</i>	<i>ñed</i>	<i>bdag</i>
2	<i>khyod</i>	<i>khyed</i>	<i>ñid</i>
3	<i>kho</i>	<i>khoñ</i>	

3.1.1.1.1.1.2.2. HONORIFIC DETERMINERS HONORIFIC DETERMINERS are used to refer respectfully to persons of higher social or spiritual rank—thus *žiñ-pa khyod* “you the farmer” but *bla-ma khyed* “you the lama.” The higher status may be relative either to the speaker or the addressee: for example, in the work of Gtsañ-smyon he-ru-ka we find that the master Mar-pa uses the third person honorific determiner *khoñ* “he” when speaking to the young Mi-la ABOUT the lama Rñog-pa and other senior disciples, but switches to the second person unmarked determiner *khyod* “you” when speaking TO them.

The first person honorific *ñed* “I” is used when a speaker expresses himself as honored by some relationship with a superior: for example, again in the work of Gtsañ-smyon he-ru-ka, we find Mar-pa’s son saying *ñed-kyi pha-džo yod* “There is my lord father,” we find the yogin Mi-la politely saying *ñed-kyi lad-mo khyed-kyis mi-oñ* “It does not suit you to imitate me,” and we find a peasant couple seeking to adopt the famous Mi-la with the words *ñed-kyi bu-dod mdzod* “Be our foster son!” When Mi-la describes how he and Mar-pa’s wife carried out a deception, he switches from a first person honorific determiner to a first person unmarked determiner as soon as he becomes the sole actor—*ñed gnis-kyis gros byas-nas, ñas phye-sgye tshuñ du-ma-tṣig-gi khar*

dpe-tshā-dañ tshas phran-tshegs yod-pa sbrags “We (*ñed*) counseled together, and then I (*ña*) piled the few books and possessions I had on top of several small sacks of flour.”¹⁴

3.1.1.1.1.1.2.3. SPEAKING ROLES Personal determiners occur almost exclusively with nominals whose referents are human—thus, in the old texts, *mi khyod* “you the man,” *ma ña* “I the mother,” but not, for example, *?rdo kho* “he the rock.” Nonpersonal determiners, on the other hand, occur with nominals of any sort: *bzañ-po de* can mean either “that virtue” or “that virtuous one,” while *bzañ-po khoñ* can only mean “he the virtuous one.”

One way of looking at personal determiners is as specifying the preceding nominal in terms of its SPEAKING ROLE in the discourse: a first person determiner would mean “THE PERSON NOW SPEAKING,” a second person determiner “THE PERSON NOW ADDRESSED,” and a third person determiner “THE PERSON NOW NEITHER SPEAKING NOR ADDRESSED.” The identities of the speaker and addressee are, of course, often OLD INFORMATION to the participants in a conversation, and thus quite often omitted—for example, *ña ñu* “The person now speaking, whose identity you know, weeps/I weep,” *khyod ñu* “The person I now address, whose identity you know, weeps/You are weeping.”

Especially where this telegraphic ellipsis occurs, we can see how convenient it is to TRANSLATE such personal determiners as English pronouns; but there are still significant differences between the two forms. Personal determiners in Tibetan are simply determiners that delimit or pick out a nominal in a particular way—in terms of speaking role, according to the description offered here—and behave syntactically just like other determiners. For example, a personal determiner can specify the speaking role even of a complex nominal, as when Mi-la speaks of *pha mtshan-ldan bla-ma khoñ* “he my father the excellent lama,” or when Mar-pa shouts at a disciple *rñog-ston tshos-r dor zer-bai ma-btšol-ba byed-mkhan khyod* “you who do what you are not supposed to do named Rñog-ston tshos-r dor!” Further, personal determiners occur much less frequently than English pronouns in any given running length of

¹⁴ Then again, the unmarked personal determiner *khyod* “you” may be used to express intimacy with respect to an otherwise superior addressee, as when Mi-pham, in a liturgy addressed to the Buddha Śākyamuni, writes *žiñ-dañ dus ndir rin-tshen mam-gsum-gyi, snañ-ba dži-sñed KHYOD-kyi nphrin-las-ñid* “In this world and age, to the extent the Three Jewels appear, it is just THY doing.”

text: classical Tibetan tends to rely on ellipsis rather than on pronominalization as a device for back-reference, so that personal determiners are to a large extent restricted to dialogue or correspondence, where it is important textually to keep track of who is saying what to whom.

3.1.1.1.1.1.2.4. HUMILIFICS In classical Tibetan we not infrequently find a nominal—such as a term of endearment, title of respect, or professional title—used with a personal determiner where in English we would expect either a pronoun or title but not both. For example, Ras-tshuñ-pa addresses his master Mi-la with the words *RDŽE-BTSUN RIN-PO-TŠHE KHYED-kyis gsuñ-du gsol* “I pray that YOU THE PRECIOUS REVEREND speak,” and Mar-pa’s wife speaks of her husband to Mi-la with the words *BLA-MA KHOÑ ñas rgya-gar-nas blañs-pai tshos ndi-mams sems-tšan-la phan-du re-nas blañs-pa yin gsuñ* “He THE LAMA says, These teachings I brought from India were brought hoping to benefit sentient creatures.” Less respectful terms are also often found in this construction: when Mi-la is about to die, his disciple Ras-tshuñ-pa is puzzled at the celestial portents, and several goddesses rebuke him, saying *SKYES-BU KHYOD-kyis mig-dañ ma-ba bkag-nas sdod-pa yin-nam* “Have YOU FELLOW been standing around blocking up your eyes and ears?”

Sometimes, too, such nominals are used without personal determiners: for example, Ras-tshuñ-pa speaks directly to Mi-la with the words *RDŽE-BTSUN-kyis thog-mar dka-spyad-dañ sgrub-pa guas gañ-du mdzad* “In what place did THE REVEREND first practice austerity and meditation?” and, similarly, Mi-la is asked by some shepherd boys *BLA-MA-la bžugs-grogs med-pa lags-sam* “Has THE LAMA no companion?” Here too we not infrequently find kinship terms, as when Mar-pa asks *BU mthoñ-ñam yid tshes-sam* “Did MY SON see? do you believe?” or when Ras-tshuñ-pa dreams that a goddess takes his hand and says to him *TSILA-BO-s go-bar ndug* “MY NEPHEW understands.”

Similarly, nominals with humble or deprecatory connotations are found to occur with—or instead of—first person determiners: here we find such expressions as *ñan-bu* “miserable fellow,” *phran* “lowly person,” *mi-rgan* “old man,” *sprañ-po* “beggar,” *gus-tshuñ* “one of little faith,” *ñams-tshuñ* “desitute one,” *gus-nbañs* “faithful subject,” *nbañs tshuñ-ñu* “lowly subject,” *zag-phuñ* “miserable lump.” Such nominals we may conveniently call HUMILIFICS (in contrast to HONORIFICS). For example, in the work of Gtsañ-smyon he-ru-ka, we find a black magician saying *MI-RGAN ÑA-s mthu-gtad-ser gsum-žig-la las byas* “I THE OLD MAN have worked in magic, curses, and hailstorms,” while Mi-la sings, in one of the songs anthologized over his name, *SPRAÑ-PO-i skyid-*

sdug khyed-rañ šes "You know THIS BEGGAR's happiness and sorrow," and, in the ancient stories found among the Central Asian manuscripts, we find *RAN-BU ni bros-de mišhis-so* "THIS MISERABLE FELLOW ran away and came."

Such humilifics are often found in correspondence: the Tibetan epistolary style delights in such flowery locutions as the following, in a letter to the Dalai Lama:

*skyabs-mgon tshen-poi thugs-rdžes gañ-gi bka-drin-la rtag-tu
spyod-pai nbañs tsuñ-ñu BDAG kyañ gsar-slad rigs-med tsam-nas
žabs-ndegs-la lhag-bsam-gyi spobs-pa ndegs-bžin-par gnas lags*

By your compassion, great lord protector, to whose grace I
YOUR LOWLY SUBJECT ever have recourse, I remain without new
corruption daring to hope that I may serve you.

Even in a relatively informal letter such as the following we find the humilific *phran* "lowly person" where in English we would find a personal pronoun:

*ngyur-ba med-pai yid-gtšugs ldan-pa tše-khae lags-kyi druñ-du,
khyed-kyi gsuñs-bris nbyor-bas PHRAN-dañ PHRAN-gyi zla-bo gñis
dga-spro dpag-tu med-pa skyes byuñ*

To the honorable presence of our unwaveringly beloved Jack:
Receipt of your honored letter has made THIS LOWLY PERSON
and THIS LOWLY PERSON's wife both immeasurably happy.

Something of this humilific style may occasionally be encountered in didactic prose as well, as when a philosophical writer says *BLUN-PO BDAG-gi rmoñš-tshod ltar-na* "In the ignorant opinion of THIS FOOLISH PERSON ME . . ." or when even a grammarian can write *BLUN-PO BDAG RAN-gi nthad-pa ltar-na* "In MY OWN FOOLISH PERSON's belief . . ."

The classical texts contain some interesting humilifics. In the epic of Ge-sar we find that a heroine will speak of herself as *ser-mo* "finger" and *sen-mo* "fingernail," both perhaps in the sense of "appendage, dependent." Interestingly, some humilifics appear to have the OLDER RELATIVE FORMATIVE *?a-* prefixed to them: for example, we find *?a-ser-mo* "old finger" alongside *ser-mo* "finger." The common expression *?a-bo-?a-pho* is an affectionate

prefix to the names and epithets of lay persons, as in *?a-bo mthu-tshen* "Friend Magician." This term too is found as a humilific, as in *?a-bo ña* "this old fellow."

3.1.1.1.1.1.2.5. FROM HUMILIFIC TO PERSONAL DETERMINER We can see that a humilific such as *phran* "lowly person" can lose much of its deprecatory connotation and behave SEMANTICALLY very much like an elegant first person determiner—thus, for example, *phran-gyi zla-bo* "this lowly person's wife → my wife." Indeed, it seems that some humilifics have come, at various times, to behave SYNTACTICALLY as personal determiners as well. For example, in an archaic mythological text from Central Asia, we find the humilific *ñan-bu* "miserable fellow"—for example, in *ÑAN-BU ni bros-de mišis-so* "THIS MISERABLE FELLOW ran away and came" and *ÑAN-BU pha-yab-kyi mtshan ltoñ-de me-bkru* "THIS MISERABLE FELLOW's honorable father's name is Ltoñ-de me-bkru." This humilific is then pluralized with the personal determiner plural *-tšag* in the expression *MYI ÑAN-tšag spun gsum* "WE MISERABLE FELLOWS, three brothers . . ." More recently, the term *ños* "side, direction" (as in *ños-kyi zla-bo* "THIS SIDE's wife → my wife") is found in the plural form *ños-tšag* "we"; the present Dalai Lama, we may add, has written an autobiography entitled *ños-kyi yul-daiñ ños-kyi mi-mañ* "My Land and My People." In the case of *ñan-bu* "miserable fellow" in the early period and of *ños* "side" in the later period, a humilific has come to behave syntactically as well as semantically as a first person determiner. It is tempting to see in such elegant determiners as *bdag* a similar history, with a similar intermediate phase of use as a humilific *bdag* "self."

3.1.1.1.1.1.2.6. SEX-MARKED PERSONAL DETERMINERS Alongside *ña* "I" even in the earliest archaic Central Asian texts we find the term *kho-bo* used with a first person reference, as in *sa ni kho-bos mtshal-do* "As for the meat, I ate it." The term persists through the classical language as a personal determiner: we find such terms as *mi kho-bo* "I the man" as well as the plural form *kho-bo-tšag* "we." Yet we also find such syntactic anomalies as *kho-bo ña*, suggesting that the term still retained, for some writers, a flavor of its presumably nominal origin, perhaps as a humilific related to the form *khyo* "person, man." In the classical texts, too, at least as early as in the ninth-century translation of the *Mdzañs-blun žes bya-bai mdo* from its Chinese original, there appears the innovative form *kho-mo* as the feminine equivalent of the earlier term; by the fourteenth century the first person semantic field had enlarged to include *kho-bo* as a first person masculine determiner, used by a male speaker to refer to himself, and *kho-mo* as a first person feminine

determiner, similarly used by a female speaker. Note the similarly sex-marked derivatives *khyo-bo* "husband" and *khyo-mo* "wife" from *khyo* "person, man."

In classical texts influenced by Middle Tibetan the same process seems to be repeated with the noun *mo* "woman, female," which begins to function as a third person feminine determiner: for example, in the biography of Mi-la ras-pa we find such phrases as *ma-rgan mo* "she the old mother," and such propositions as *bu-mo de-la tshed-gñer-gyis bskul-bas, MO-s duñ-rdog bdun phul* "They earnestly urged the girl, so SHE offered me seven small shells." Given such usage, we find the third-person semantic field shifting to accommodate the new term: the previously unmarked form *kho* begins to be read as a third person masculine determiner. We can schematize the resulting pattern of sex-specific determiners as follows:

PERSON	UNMARKED	MASCULINE	FEMININE
1	<i>ña</i>	<i>kho-bo</i>	<i>kho-mo</i>
2	<i>khyod</i>		
3		<i>kho</i>	<i>mo</i>

3.1.1.1.1.1.2.7. PERSONAL DETERMINER TAILS Occasionally in more colloquial registers we find a personal determiner preceding rather than following the nominal head it delimits—for example, *ñed spun gsum* "we three brothers," *khyed grwa-pa-mams* "you monks," *khoñ grogs-po-mams* "they my friends." We may perhaps best consider such constructions to be parenthetical identifications of a personal determiner for purposes of clarification or emphasis: the nominal following the determiner is in the nature of an afterthought or TAIL. This analysis would seem to be supported by the fact that in such constructions the personal determiner and the nominal may occasionally be quantified separately—for example, *bdag-tšag tshoñ-po-mams* "we merchants," *kho-mo-tšag spun giñs* "we two sisters." Thus we find an ancestor of Mi-la shouting *ña khyuñ-po džo-sras oñ-gin yod-do* "It is I—Khyuñ-po džo-sras—who is coming!" and his mother crying out *ña myañ-tsha dkar-rgyan-la da-lan-las ñams dga-ba ?e-yoñ ltos-dañ* "Just see whether I—Myañ-tsha dkar-rgyan—will ever feel happier than now!" And, in a song to his sister, Mi-la sings *ñai spyod-pa-la bltas-na smyon-pa ndra, khyod sriñ-mos bltas-kyin yi-mug skye* "If you look at my behavior it is like a madman; you my sister look upon it and despair."

3.1.1.1.1.1.2.8. THE ARCHAIC DETERMINER *o~u* We can here take note of an archaic determiner *o~u* with a wide variety of written reflexes. When pluralized with *-tṣag* it appears to be a first person determiner: we find *o-tṣag~u-tṣag~a-tṣag~u-bu-tṣag~yu-bu-tṣag~yu-tṣag* "we," as well as the forms *o-skol~u-skol* "we," persisting from the earliest Central Asian manuscripts well into the nineteenth century. In the biography of Mi-la ras-pa, for example, we find the forms *o-skol* (as in *o-skol-la g.yu ndi ga-nas byuñ* "Where did we get this turquoise from?"), *o-tṣag* (as in *o-tṣag blos ma-thoñs-pa min* "It's not that he didn't forsake us"), and *u-tṣag* (as in *khoñ-tshoi mthu-dañ u-tṣag-gi mthu mi-ndrao* "Our magic is not the same as their magic"). Such forms are particularly liable to textual variation: for example, one occurrence is given as *o-tṣag* by three blockprints of the Mi-la, but as *u-tṣag* by the fourth.¹⁵

3.1.1.1.1.2. Indefinite determiners

Definite determiners specify the scope of reference of the preceding nominal as extending to certain determinate members of the denominated set; INDEFINITE determiners specify that scope as extending potentially to every member of that set. For example, in *mi ña* "I the man," the definite determiner *ña* "I" limits the reference of the nominal *mi* "man" to the person then speaking; but in *mi gañ* "some man, any man," the indefinite determiner *gañ* "some, any" specifies that the reference extends potentially to any member of the set denominated by *mi* "man"—thus, for example, in the chronicle *Rgyal-rabs gsal-bai me-loñ, sañs-rgyas GAÑ-gis kyañ ma-btṣags-pa* "not trodden by ANY Buddha."

There are four indefinite determiners in Tibetan—*gañ* "INDEFINITE NOMINAL/any, some, whatever," *tṣi* "INDEFINITE NONANIMATE/any, some, whatever," *su* "INDEFINITE HUMAN BEING/any, some, whoever," *nam* "INDEFINITE TIME/any, some, whenever." As the definitions indicate, these determiners occur only with certain types of nominal. The most general indefinite determiner is *gañ*

¹⁵ It is not at all clear whether this personal determiner is the same as the old determiner *o* "that" preserved in stereotyped connectives—*o-na~on* "in that → well, now, but," *on-kyāñ* "even in that → nevertheless," *on-te* "being in that → on the other hand." It is perhaps this latter determiner which is to be compared with Chepang *?uw~?ow*, Garo *ua*, Burmese *hui*, Dhimal *u* "that."

"whatever," which can act as specifier of any type of head;¹⁶ but *tSi* "whatever" occurs only with nominals that have nonanimate referents, *su* "whoever" only with those that have human referents, and *nam* "whenever" only with those that refer generally or specifically to a period of time.

*Quel pivot, j'entends, dans ces
contrastes, à l'intelligibilité? il
faut une garantie—
La Syntaxe.*

—Stéphane Mallarmé
Le Mystère dans les lettres

These four forms actually perform three different chores in the Tibetan language. First, as we have said, they can specify that the reference of a preceding nominal extends potentially to any member of the set that nominal denominates, as in *mi gañ bsad-na* "If one has killed any man . . ." Second, they can serve as dummy role particle carriers in a relative construction, as in *mi gañ bsad-pa* "The man whom one has killed . . ." And, third, they can mark the queried participant in an information question, as in *mi gañ bsad* "What man was killed?"

These three uscs are not as easily confused as might at first appear. It is true that the sequence *skye-bo gañ* by itself does not give us enough information to tell which function the *gañ* is performing. But, as these examples show, there is seldom confusion when the sequence occurs in the context of particular syntactic constructions—thus *skye-bo gañ-gis sañs-rgyas mthoñ-na* "If/when SOME PERSON sees the Buddha . . ." *skye-bo gañ-gis sañs-rgyas mthoñ-ba* "the PERSON WHO sees the Buddha," *skye-bo gañ-gis sañs-rgyas mthoñ* "WHAT PERSON sees the Buddha?" The last two uses—relative and interrogative—will be discussed in the appropriate sections later in this text.

¹⁶ The form *gañ* is sometimes reduced to *ga-* before the locus and adverb particles—for example, in the Tibetan translation of the *Karmaśataka*, *btšom-l丹-ndas GA-la bžugs-te, bdag-la dgoñs-žig-gu* "Could the Blessed One be dwelling SOMEWHERE and thinking of me?"

3.1.1.1.1.2.1. Headless indefinites

Often it is perfectly clear from context or general knowledge what the nominal head of an indefinite determiner is supposed to be; in such a case, of course, the nominal head can be telegraphically omitted, leaving a HEADLESS INDEFINITE. For example, in *khyod sñar su-la yañ gsol-ba ma-btah-bam* "Haven't you previously sent an invitation to ANYONE?" the determiner *su* "INDEFINITE HUMAN BEING" is processed as the specifier of an omitted nominal head such as *mi* "person"—thus "Haven't you previously sent an invitation to some/any/whoever (person)?" In this example, too, the fact that the referent of the omitted nominal is to human beings—or gods or spirits or demons, who are syntactically human—is given by the determiner *su*, which specifies only such human nominals.¹⁷

Headless indefinite constructions are not uncommon, and are the means by which didactic authors make sweeping generalizations. For example, in the *Legs-par bśad-pa rin-po-tshai gter* by Sa-skya pañjita, we read *sems-tshai mos-pa sna-tshogs-pas, thams-tshai mgu-bar su-s kyañ dka* "The pleasures of sentient creatures are varied, so it is hard for ANYONE to please them all," *gañ-žig phun-sum-tshogs ndod-na, de-yis ndu-ngod mañ-du bya* "If ANYONE desires excellence, he should mingle much with others," *gañ-la blo-gros mi-lan-na, bstan-btšos legs-kyañ su-žig len* "If SOMEONE is without intelligence, though a teaching be good, who accepts it?" Note, as in these examples, that indefinite determiners frequently co-occur with the selector *-Tšig* and the connective *yañ*—thus *su yañ* "anyone at all," *gañ-žig* "someone," *nam yañ* "whenever."

3.1.1.1.1.2.2. Indefinite adverbs

The formative *dži-*—which is apparently related to the indefinite determiner *tši*, but is not the same—yields a special class of indefinite determiners which we will here call INDEFINITE ADVERBS.¹⁸ These are adverbs primarily of

¹⁷ And note the following example, from an archaic Central Asian manuscript—*uñ-nas gršig-la gršig dmag drañ-ste, res-nga SU-s rgyal, res-nga SU-s pham-bar oñ-ño* "Then they led armies one against the other, and it came to be that sometimes ONE OF THEM/WHOEVER would be victorious, and sometimes ONE OF THEM/WHOEVER would be defeated."

¹⁸ Although these indefinite adverbs are normally formed with the *dži-* prefix, we

manner and extent,¹⁹ which most frequently utilize the totalizers *sñed* "no less than," *tsam* "as much as," *srid* "as long as," and the simile-creating *-bžin* "like, as," *-lta~-lta-bu~-lta-ba* "like, as"—thus, for example, *dži-lta-r* "INDEFINITE MANNER/in whatever way, however," *dži-srid-du* "INDEFINITE EXTENT/to whatever extent, however long." Since indefinite adverbs are distinctively marked with the *dži-* prefix, the adverb particle *-tu* is redundant, and is, accordingly, not infrequently omitted, especially under the constraints of meter.

Note the following from the *Legs-par bšad-pa rin-po-tšhei gter* by Sa-skya paṇḍita—*dži-srid rañ-stobs ma-rdzogs-na, de-yi bar-du dgra-mams bkur* "However long it takes to perfect one's own strength, during that interval one honors one's enemies," *ñan-pa dži-ltar biśos gyur-yañ, rañ-bžin bzañ-po nbyuñ mi-srid* "However one may correct an evil person, it is impossible for him to have a good nature," *nbab-tshu dži-ltar bzlog gyur-kyañ, thur-du nbab-pa khonar ndod* "Any way you dam up a river, it still wants nothing but to flow downward." Sometimes an indefinite adverb of manner may as plausibly be read as an adverb of extent—for example, again from Sa-skya paṇḍita, *dam-pa dži-ltar rgud gyur-kyañ, sdig-dañ ndres-pai zas mi-za* "However impoverished a holy person becomes, he does not eat food that is mixed with sin," *tshu ni dži-ltar skol gyur-kyañ, me-ru nbar-ba mi-srid-do* "However long you boil water, it still won't catch on fire," *mkhas-pa dži-ltar thabs brdugs-kyañ, blun-po ndžug-pai lam mi-ngro* "However much a wise man may be without means, he still will not go on the path taken by fools."²⁰

sometimes find *tši* substituted sporadically in some manuscripts; similar forms with *gañ*—such as *gañ-bžin-du*—are also occasionally found.

¹⁹ This is presumably what the Tibetan grammarians are referring to when they say *dpe-dañ tshad-gžal-ba-la dži thob* "The form *dži* obtains for manner and extent." Actually, the term *dpe* means "example, simile," but here clearly refers to the simile-creating *-bžin* and *-lta*, which, with the *dži-* prefix, yield indefinite adverbs of manner. The grammarians continue, by saying *don-la tši thob* "The form *tši* obtains for the thing itself," which, if I understand it correctly, would seem to comport with the analysis given here.

²⁰ The prefix *dži-* also occurs more or less sporadically with terms other than these five; indeed, it seems to be able to make an indefinite adverb of manner or extent out of just about anything. Note, for example, *skad* "speech, words" *dži-skad du* "in whatever words" however it is said," *LEGS* "be good" *dži-legs-su* "however may be good"—thus, from a piece of archaic Central Asian manuscript correspondence, *tshu legsu mdzad-par smon-tshiañ mts'* "I pray that you do as you think best." An adverb, in this context, is not necessarily limited

3.1.1.1.1.2. REFLEXIVES

A DEFINITE determiner—but apparently not an indefinite determiner—can be followed by either of two REFLEXIVES—*rañ* “-SELF, same” and *ñid* “-SELF, same.” These reflexives specify the scope of the nominal as limited to an entity or set of entities already stated or implied in the preceding text²¹—for example, in the Tibetan translation of the Chinese *Mdzañs-blun žes-bya-bai mdo, mi de ni rgyal-po ñid yin* “That man is the KING HIMSELF/THAT SAME KING,” and, in the *Legs-par bšad-pa rin-po-tšhei gter* by Sa-skyā pañđita, *wa-skyses rgyal-por bskos-pa-yis, nkhor sdug rañ yañ bṣad tšes grags* “It is a well-known story that the EVIL ATTENDANTS were tormented by the fox they had made their king and THEY THEMSELVES/THOSE SAME ONES killed him,” *blun-po rañ-dañ mthun-pas dga* “A FOOL is pleased by one who is like HIMSELF.”

This limitation may be simply to the immediately preceding nominal itself—for example, again from Sa-skyā pañđita, *rta-la rgyan-du byas-pa de, bdag-po ñid-la mi-mdzes-sam* “Is not what is done as an ornament to the horse becoming to the MASTER HIMSELF?” *rgyal-po ñid-kyis ma-brtsis-na, thams-tšad šes-paañ bkur mi-ngyur* “If he is not so accounted by the KING HIMSELF, even one who is omniscient gets no respect,” *mkhas-pa rañ-gis spyod šes-kyi, blun-po grags-pai rdžes-su nbrañ* “The WISE THEMSELVES know how to act, but the foolish follow what they hear.”

The difference between the two reflexives seems to be this: the reflexive *ñid* occurs with nominals denoting any type of entity—thus both, say, *rgyal-po ñid* “that same king, the king himself” and *dus de ñid* “that same time”; but the reflexive *rañ* occurs only with nominals denoting animate entities—thus *rgyal-po rañ* “that same king, the king himself” but not *?dus de rañ*. Whether for that reason or not, it also seems to be the case that the reflexive *rañ* is much more likely than *ñid* to be found in headless constructions.²²

to forms specifically with the adverb particle, but apparently can include other participant roles functioning semantically to express the manner or extent of the event—thus, for example, *NUS* “be able” *dži-nus-kyis* “to the extent one is able, however one can.”

²¹ The same specification is occasionally made with the formative *-ka* “SAME,” as in *bla-ma de-ka* “that same lama,” *mar-pa zer-ba de-ka* “that same one named Mar-pa,” *tšhos-ka* “the same teaching.”

²² The derived form *rañ-ñid* “ONESELF” occurs, as far as I can tell, exclusively in such headless constructions. The form is not a nominal—we do not find, for example, *?rañ-ñid*

Such headless constructions with *rañ* are found where the head of the reflexive is recoverable as referring to people in general, or to the addressee—thus, from Sa-skyā pañjita, *rañ-gis ñan-spyod ma-byas-na*, *brgya-byin-gyis kyañ smad mi-nus* “If ONE does not do bad things ONESELF, even the King of the Gods cannot slander one,” *rañ-la blo-gros mi-l丹-na*, *blo-tshen gžan-la legs-par dris* “If YOU do not YOURSELF have understanding, thoroughly question another who is wise,” *gžan-gyis tšuñ-zad gses-pai tshe*, *rañ-la bsam-pa tši nbyung soms* “Think of the thoughts which arise in YOURSELF when another has harmed you even a little,” *rañ-gis legs-par šes-na yañ, bya-ba thams-tšad gros-kyis sgrubs* “Even though YOU YOURSELF know it well, accomplish all your deeds with counsel,” *rañ-la dgos-pai bstan-btšos-mams, ñi-ma re-la tshig-re zuñs* “Each day learn one line from the treatises that are useful to YOURSELF,” *rañ-gi yon-tan legs gnas-pa, skye-bo dam-pai mtshan-ñid yin* “To abide well in ONE’s OWN virtues is the sign of a holy person,” *bslus-rdžes kho-bo drañ-ño žes, rañ-la bstod-pas tši-žig phan* “What’s the use of praising ONESELF, saying ‘I am honest,’ after one has been fooled?”

We also find such headless constructions in reflexive adnominal possessives, where the head of the reflexive is recoverable from the preceding text—for example, in the *Pad-ma thañ-yig, MI de-s RAÑ-gi ma yin-par rig* “The MAN perceived that it was HIS OWN mother,” in the Tibetan translation of the *Mdzañs-blun žes bya-bai mdo, TŠHUN-MA de-ø RAÑ-gi lus-la tshags* “That WIFE

de—and we can probably consider it a specialized reflexive that occurs independently of a modified nominal. Note the following examples from Sa-skyā pañjita—*skyé-ba phyi-mar btšol-ba-yi, nor-la rañ-ñid len-pa ndra* “(Studying) is like ONESELF accepting wealth which is entrusted for a future life,” *don ma-grub-pai blun-po nga, rañ-ñid ngags-te mishi-ba yod* “Some fools who have not accomplished their aim choke THEMSELVES and die,” *gžan-la lta-bai mig yod kyañ, rañ-ñid lta-na me-loñ dgos* “Even one who has eyes to see others needs a mirror if he is to see HIMSELF,” *gal-te dgra-la gnod ndod-na, rañ-ñid yon-tan l丹-par bya* “If you wish to harm an enemy, you should acquire virtue YOURSELF,”

*bu-lon lhag-ma dgra-boi thed
khrims ñan-mams-dañ gtam-ñan-dañ
rigs-rgyud ñan-dañ spyod-ñan-mams
ma-spel-bar yañ rañ-ñid nphel*

The remainder of a debt, leftover enemies,
bad laws, bad news,
a bad family, and bad conduct
THEMSELVES increase, with no one increasing them.

is in love with HER OWN ḥody," and, in the *Legs-par bśad-pa rin-po-tshai gter* by Sa-skyā pañjita, *MKHAS-PA-s bya-ba tši byed kyañ, RAÑ-gi bsod-nams brtags-te bya* "THE WISE should do what deeds they do with regard to THEIR OWN merit," *MKHAS-PA RAÑ-gi yul-bas kyañ, yul-khams gžan-du mtšod-pa thob* "The WISE get more respect in other countries than in THEIR OWN land," *GZUÑ-ÑAN gžan-gyi bka-drin-las, byuñ-ba RAÑ-gi tše-bar bsgom* "THE OBTUSE view what comes about through the grace of others as THEIR OWN greatness.²³

3.1.1.1.2. QUANTIFIERS

A nominal—and its optional delimiters—may be followed by up to four QUANTIFIERS, which limit its reference by specifying HOW MANY entities the nominal head refers to.²⁴ These quantifiers are NUMERALS, which specify the number of entities referred to in the set denoted by the nominal; PLURALS, which

²³ Such collocations of *rañ* "self" and *gžan* "other" are quite common both in Buddhist philosophy and in Tibetan writing generally: note, for example, Sanskrit *svalakṣana/paralakṣaṇa* Tibetan *rañ-gi mtshan-ñid/gžan-gyi mtshan-ñid* "own-characteristic/other-characteristic," Sanskrit *svatantra/paratantra* Tibetan *rañ-dbañ/gžan-dbañ* "own-power/other-power," Sanskrit *svapakṣa/parapakṣa* Tibetan *rañ-gi phyogs/gžan-gyi phyogs* "own contention/other's contention," Sanskrit *svato'siddha/anyatara'siddha* Tibetan *rañ-la ma-grub-pa/gžan-la ma gruba-pa* "not proven for oneself/not proven for others."

Note the following verses from Sa-skyā pañjita, first contrasting *rañ* and *gžan*—*skyes-mtšog rañ-gi skyon-la lta, skye-bo ñan-pa gžan-skyon tshol* "The noble look upon their own faults; the wicked seek out the faults of others," *rañ-dbañ thams-tšad bde-ba-ste, gžan-dbañ thams-tšad sdug-bsñal yin* "Everyone is happy who has power over himself; everyone suffers who is in the power of others," *rañ-don nbad-pas sgrub ndod-na, de-yis dañ-por gžan-don sgrub* "If one wishes to strive and thus accomplish one's aims, one should first accomplish the aims of others"; and then grouping *rañ* and *gžan* together—*blun-po nbyor-bar gyur-tshe yañ, rtsod-pa kho-nas rañ-gžan bsreg* "A fool, even when he has become rich, consumes himself and others with nothing but quarrels," *dam-pa dul-bas rañ-gžan skyoñ, ñan-pa reñ-pas rañ-gžan sdug* "The holy protect themselves and others with softness; the wicked torment themselves and others with hardness," *gnas-min ha-tšañ drañ-po-yañ, rañ-gžan gñis-ka brlag-pa yod* "Though he be quite upright, in the wrong circumstances he will destroy both himself and others."

²⁴ Since these quantifiers occur after a determiner, we can distinguish them from such quantifying ADJECTIVES as *mañ-po* "many," *du-ma* "several," *n̄ga* "some," *ma-lus-pa* "without exception" which are found before a determiner—for example, *mi mañ-po de* "those many men," *bla-ma ma-lus-pa ndi* "every single one of these lamas."

specify whether there is more than one entity referred to in the set denoted by the nominal; TOTALIZERS, which specify the relation of the entities denoted to some reference size or number; and SELECTORS, which specify the range of entities referred to in the set denoted by the nominal. Where quantifiers occur, they occur in the order NUMERAL-PLURAL-TOTALIZER-SELECTOR; and, as a general rule, each of these four slots can be filled by only one member at a time.²⁵

3.1.1.1.2.1. NUMERALS

Immediately following the delimiters—and before any further quantifiers—there may occur a NUMERAL, such as *giśig* “one,” *gīis* “two,” *gsum* “three,” and so on, which specifies the NUMBER of entities in the set designated by the nominal—thus *mi gīis* “two men,” *mi de gīis* “those two men,” *mi pha-gi līa* “the five men over there.”²⁶

3.1.1.1.2.1.1. From one to ninety-nine

The Tibetan numerals are as follows—*giśig* “one,” *gīis* “two,” *gsum* “three,” *bži* “four,” *līa* “five,” *drug* “six,” *bdur* “seven,” *brgyad* “eight,” *dgu* “nine,” *btšu* “ten.”

The numbers from eleven to nineteen are formed on the pattern TEN-ONE, TEN-TWO, and so on—thus *btšu-giśig* “eleven,” *btšu-gīis* “twelve,” *btšu-gsum* “thirteen,” *btšu-bži* “fourteen,” *btšu-līa* “fifteen,” *btšu-drug* “sixteen,” *btšu-*

²⁵ Remember that quantifiers are OPTIONAL constituents of a nominal phrase: unlike English, classical Tibetan marks nominal phrases for quantity only when there is good reason to do so. In English we must say either *lama* or *lamas*, either singular or plural; in Tibetan the form *bla-ma* is simply UNMARKED for quantity, and thus may mean either “lama” or “lamas”—presumably made clear from the context. A phrase such as *bla-ma-dag* “MORE THAN ONE lama/lamas”—which is MARKED for quantity—will be used only when such specific information is felt to be necessary for understanding.

²⁶ An exception to the word order rule can occasionally be found where a numeral is part of a common collocation, and is felt to be part of the nominal itself, rather than a specifier of the nominal—for example, *pha-rol phyin-pa drug ndi* “these Six Perfections” as opposed to *pha-rol phyin-pa ndi drug* “these six perfections,” *rgyal-po bži de* “those Four Kings” as opposed to *rgyal-po de bži* “those four kings.”

bdun "seventeen," *btšo-brgyad* "eighteen," *btšu-dgu* "nineteen."²⁷

Multiples of ten from twenty to ninety are formed on the pattern TWO-TEN, THREE-TEN, and so on—thus *ñi-šu* "twenty," *sum-tšu* "thirty," *bži-btšu* "forty," *lña-btšu* "fifty," *drug-tšu* "sixty," *bdun-tšu* "seventy," *brgyad-tšu* "eighty," *dgu-btšu* "ninety."²⁸

The numbers from twenty to ninety-nine regularly use the syllable *-rtsa* to separate tens from units—for example, *ñi-šu-rtsa* *gišig* "twenty-one," *ñi-šu-rtsa* *gñis* "twenty-two," *ñi-šu-rtsa* *gsum* "twenty-three," *sum-tšu-rtsa* *bži* "thirty-four," *bdun-tšu-rtsa* *lña* "seventy-five," *dgu-btšu-rtsa* *dgu* "ninety-nine."

3.1.1.2.1.2. Clipped numerals

Quite often the numerals from twenty-one to ninety-nine are found in peculiarly CLIPPED forms. We find *ñer* < *ñi-šu-rtsa*, and thus *ñer-gišig* "twenty-one," *ñer-gñis* "twenty-two," *ñer-gsum* "twenty-three"; *so* < *sum-tšu-rtsa*, and thus *so-gišig* "thirty-one," *so-gñis* "thirty-two," *so-gsum* "thirty-three"; *že* < *bži-btšu-rtsa*, and thus *že-gišig* "forty-one"; *ña* < *lña-btšu-rtsa*, and thus *ña-gišig* "fifty-one"; *re* < *drug-tšu-rtsa*, and thus *re-gišig* "sixty-one"; *don* < *bdun-tšu-rtsa*, and thus *don-gišig* "seventy-one"; *gya* < *brgyad-tšu-rtsa*, and thus *gya-gišig* "eighty-one"; and *go* < *dgu-btšu-rtsa*, and thus *go-bdun* "ninety-seven," *go-brgyad* "ninety-eight," *go-dgu* "ninety-nine." These clipped numerals are invariably the forms used in numbering the folios of a Tibetan book.

Such clipped numerals are also found, in classical texts influenced by Middle Tibetan, instead of *-rtsa* to separate tens from units—for example, *sum-tšu-so* *bdun* instead of *sum-tšu-rtsa* *bdun* "thirty-seven," *bži-btšu-že* *drug* instead of *bži-btšu-rtsa* *drug* "forty-six," *lña-btšu-ña* *lña* instead of *lña-btšu-rtsa* *lña* "fifty-

²⁷ Note that the HIGH BACK vowel *u* of *btšu* "ten" becomes the LOW BACK vowel *o* of *btšo-* when it is followed by the LOW BACK vowel *a* of the numerals *lña* "five" and *brgyad* "eight." This change is the only tongue HEIGHT assimilation I know of in the language.

²⁸ It is remarkable to find *ñi-šu* "twenty" instead of the expected **gñis-btšu*, and *sum-tšu* "thirty" instead of the expected **gsum-btšu*. Further, the preinitial *b-* of *btšu* "ten" is deleted after preceding closed syllables but retained after preceding open syllables—for example, *bži-btšu* "forty" but *drug-tšu* "sixty" instead of **drug-btšu*. This foreshadows similar changes throughout the lexicon in several New Tibetan dialects; it is interesting that these phonological changes began in the number system before spreading elsewhere.

five," *drug-tšu-re bži* instead of *drug-tšu-rtsa bži* "sixty-four," *bdun-tšu-don gsum* instead of *bdun-tšu-rtsa gsum* "seventy-three," *brgyad-tšu-gya gñis* instead of *brgyad-tšu-rtsa gñis* "eighty-two," *dgu-btšu-go gtšig* instead of *dgu-btšu-rtsa gtšig* "ninety-one." Only the twenties are exceptions: we find only *ñi-šu-rtsa* and not *?ni-šu-ñer*. This usage is now standard in several New Tibetan dialects.²⁹

3.1.1.1.2.1.3. Numerals as selectors

In some archaic manuscripts from Central Asia, the numeral *dgu* "nine" is used as a selector in the sense of "MANY" or "ALL" (for example, *gnod-dgu* "all harms," *lha-dgu* "the many gods," *dgra-dgu* "all enemies"), a sense preserved in later texts in the use of *-dgu* "ALL" as a nominalizer, as in *ndod-dgu* "all that one desires." In the same texts we also find the numeral *gsum* "three" used as a selector in the sense of "ALL" or "EVERY" both with common nouns (for example, *ñin-sum* "every day," *gyañ-sum* "all good fortune") and with place names (for example, *gtañ-sum* "all of Gtañ," *rgyal-sum* "the whole of Rgyal,"), a sense preserved in such stereotyped phrases of the later texts as *mñon-sum* "wholly manifest" and *phun-sum* "completely perfect." In these later texts too the numeral *nbum* "hundred thousand" takes on the sense previously held by *dgu* "nine," and we find expressions such as *gsuñ-nbum* "hundred thousand sayings → the complete works" and *mgur-nbum* "hundred thousand songs → the complete poems."

3.1.1.1.2.1.4. Large numbers

The Tibetans inherited from the Indians not only their decimal system—which passed through Arab intermediaries to Europe as well—but also a love of very large numbers and specific names for many of them.³⁰ Thus we find the

²⁹ For example, we find New Tibetan (Lhasa) *sumišu sɔsɔm* (Ladakh) *sumišu sɔsɔm <sum-tšu-so gsum>* "thirty-three," (Lhasa) *cɔišu carku* (Ladakh) *rgyattšu gyagu <brgyad-tšu-gya dgu>* "eighty-nine." Thus, too, we find New Tibetan (Lhasa) *ñišu tsaksom* (Ladakh) *ñišu rtsaksum <ñi-šu-rtsa gsum>* "twenty-three" but not (Lhasa) *?šiptšu tsasom* (Ladakh) *?šiptšu rtsaksum <bži-btšu-rtsa gsum>* "forty-three."

³⁰ It has plausibly been suggested that the Indian love of large numbers correlates with an intense dislike for fractions: the relations of large-scale cycles such as planetary align-

the following names for the numbers from one hundred to one quintillion—*brgya* “100,” *stoñ* “1,000,” *khri* “10,000,” *nbum* “100,000,” *sa-ya* “1,000,000,” *bye-ba* “10,000,000,” *duñ-phyur* “100,000,000,” *ther-nbum* “1,000,000,000,” *ther-nbum tshen-po* “10,000,000,000,” *khrag-khrig* “100,000,000,000,” *khrag-khrig tshen-po* “1,000,000,000,000,” *rab-bkram* “10,000,000,000,000,” *rab-bkram tshen-po* “100,000,000,000,000,” *gtams* “1,000,000,000,000,000,” *gtams tshen-po* “10,000,000,000,000,000,” *dkrigs* “100,000,000,000,000,000,” and *dkrigs tshen-po* “1,000,000,000,000,000,000.” It should come as no surprise that these names are not used with complete consistency.

Multiples of these larger numbers are formed, like the multiples of ten, on the pattern ONE-HUNDRED, TWO-THOUSAND, THREE-TEN-THOUSAND, and so on—thus *tshig-brgya* or *brgya* “one hundred,” *ñi-brgya* “two hundred,” *sum-brgya* “three hundred,” *bži-brgya* “four hundred,” *lña-brgya* “five hundred”; *tshig-stoñ* or *stoñ* “one thousand,” *ñi-stoñ* “two thousand,” *sum-stoñ* “three thousand,” *bži-stoñ* “four thousand,” *lña-stoñ* “five thousand”; *tshig-khri* or *khri* “ten thousand,” *ñi-khri* “twenty thousand,” *brgyad-khri* “eighty thousand,” *dgu-khri* “ninety thousand.” Note the reduced forms *tshig*-for *gtšig* “one,” *ñi-* for *gnis* “two,” and *sum-* for *gsum* “three”; the other numerals are prefixed in their full forms.

Combinations of these numerals are straightforward if certain principles are borne in mind. The numbers from one to nineteen form a single unit over against those from twenty to ninety-nine. An omitted number slot—that is, a zero—is optionally but frequently filled with the place marker *-dañ*, except for the last empty slot: thus we find, for example, *ñi-brgya-dañ gnis* “two hundred and two” and *bži-stoñ-dañ lña-btšu* “four thousand and fifty” but *bdun-brgya dgu-btšu* “seven hundred ninety.”³¹ And a number such as “twenty-two thousand” is in Tibetan *ñi-khri ñi-stoñ* “two ten-thousands two thousands” rather than, as in English, *?ñi-šu-rtsa gnis stoñ*. Thus note the following—*gnis* “2,” *btšu-bži* “14,” *dgu-btšu-rtsa bži* “(9 × 10) + 4 = 94,” *brgya-DAÑ gtšig* “(1 × 100) + (0 × 10) + 1 = 101,” *ñi-brgya bdun-tšu* “(2 × 100) + (7 × 10) + 0 =

ments would be expressed not as a proportion but rather as the length of time required for the cycle to reach its starting point and, say, the alignment to recur.

³¹ In this regard note the atypical adjective *tham-pa* “full, round, even” (compare *GTAM* ~ *LТАМ* “be full”) which not only occurs after numerals but occurs exclusively after numerals—and only numerals that are multiples of ten: thus we find, for example, *btšu tham-pa* “ten,” *brgyad-tšu tham-pa* “a round eighty,” *brgya tham-pa* “a full hundred.”

270," *dgu-brgya dgu-bišu-rtsa drug* "(9 x 100) + (9 x 10) + 6 = 996," *bži-stoñ ni-brgya-DAÑ bišo-lña* "(4 x 1,000) + (2 x 100) + (0 x 10) + 15 = 4,215," *drug-stoñ bdun-brgya dgu-bišu* "(6 x 1,000) + (7 x 100) + (9 x 10) + 0 = 6,790," *dgu-stoñ ni-brgya* "(9 x 1,000) + (2 x 100) + (0 x 10) + 0 = 9,200," *dgu-stoñ dgu-brgya dgu-bišu-rtsa bdun* "(9 x 1,000) + (9 x 100) + (9 x 10) + 7 = 9,997," *ni-khri ni-stoñ bdun-brgya dgu-bišu* "(2 x 10,000) + (2 x 1,000) + (7 x 100) + (9 x 10) + 0 = 22,790," *sum-khri-DAÑ drug-brgya bdun-išu-rtsa gtšig* "(3 x 10,000) + (0 x 1,000) + (6 x 100) + (7 x 10) + 1 = 30,671," *sum-khri bži-stoñ-DAÑ bišu-gnís* "(3 x 10,000) + (4 x 1,000) + (0 x 100) + (0 x 10) + 12 = 34,012."

3.1.1.1.2.1.5. Fractions

Tibetan fractions are constructed regularly with the formative *-tsha* "part," related to *tsha* "part, portion, share." Thus we find *gsum-tsha* "third part," *bži-tsha* "fourth part," *so-gnís-tsha* "thirty-second part," *brgya-tsha* "hundredth part," *stoñ-tsha* "thousandth part." Such resulting nouns may in turn be quantified by a numeral—thus *gsum-tsha gtšig* "one third," *gsum-tsha gnís* "two thirds," *bži-tsha gsum* "three fourths," *brgyad-tsha lña* "five eighths," *brgya-tsha go-dgu* "ninety-nine hundredths."

The only fraction not regularly formed by this process is *phyed* "half." An interesting locution should here be noted. On the one hand we find, expectedly, such combinations as *gsum-dañ phyed* "three and a half," but, on the other hand, we find, with the fraction preceding the integer, such combinations as *phyed-dañ brgyad* "with a half makes eight → seven and a half."

We can here mention the interesting expression *ya-gtšig* "ONE OF TWO THINGS THAT GO TOGETHER IN A PAIR"—for example, *lham ya-gtšig* "one of a pair of boots, an odd boot." The expression is old in Tibetan; in an archaic manuscript preserved in Central Asia we find *la-la tshig bden-pa de thos-na yañ, ma-ba ya-gtšig-tu thos-na, ma-ba ya-gtšig-tu phyuñ* "Even if someone heard that true word, it went in one ear and out the other." Similarly, in the *Pad-ma thañ-yig* we read *mig ya-gtšig loñ-ba* "blind in one eye"; in the Tibetan translation of the Chinese *Mdzañs-blun žes-bya-bai mdo* we find *lag-pa ya-gtšig-tu gser thogs, lag-pa ya-gtšig-tu bu-mo khrid* "In one hand he held the gold, with the other hand he led his daughter."

3.1.1.1.2.1.6. Collective nouns and adjectives

The formative *-phrag* “A SET OF” produces nouns from numerals—thus *btšu* “ten” *btšu-phrag* “decad,” *brgya* “hundred” *brgya-phrag* “centad,” *stoñ* “thousand” *stoñ-phrag* “chiliad,” *bdun* “seven” *bdun-phrag* “week.” Such nouns may themselves be quantified by a numeral—thus *brgya-phrag gtšig* “one centad → 100,” *brgya-phrag gñis* “two centads → 200,” *brgya-phrag btšu* “ten centads → 1,000,” *stoñ-phrag bži-btšu* “forty chiliads → 40,000.” While a number such as *ñi-khri ñi-stoñ* “22,000” cannot be expressed as *?ñer-gñis stoñ*, we might well find such an expression as *stoñ-phrag ñer-gñis* “twenty-two chiliads → 22,000.”

Such quantified collective nouns are sometimes used much as we use multiplication—for example, *lña-btšu-phrag bdun* “seven fifties → 7 × 50,” *btšu-drug-phrag ñi-šu-rtsa dgu* “twenty-nine sixteens → 29 × 16.” More often, however, they are used simply as elliptical expressions for numbers in common use—thus *dgu-phrag gñis* “two nines → 18,” *btšu-gñis-phrag gsum* “three dozen → 36.”

In addition, the formative *-po* (and, for the numerals one through three, *-ka*) produces collective adjectives from numerals—thus *gñis-po~gñis-ka* “the two, both,” *gsum-po~gsum-ka* “the three, all three,” *bdun-po* “the seven,” *dgu-po* “the nine.”

3.1.1.1.2.1.7. Ordinals

Ordinal numbers are produced from numerals by the formative *-pa*, as in *ñis-pa* “second,” *gsum-pa* “third,” *bži-pa* “fourth,” *ñer-gsum-pa* “twenty-third,” *brgya-pa* “hundredth.” The only ordinal not formed regularly by this process is *dañ-po* “first.”

3.1.1.1.2.1.8. Distributives

The word *re* is sometimes found as a substitute for *gtšig* “one”—for example, *khyed-la bu re dgos* “You need a son,” *lan re lan gñis* “one or two times,” *lo re tsam* “just one year,” *ras-gos rkyañ re* “one lone cotton robe.” More interestingly, however, the word functions as a SELECTOR, after numerals only,

with the distributive meaning "each"—for example, *mi lñā-la lug lñā re yod* "The five men have five sheep each."³²

The distributive expression **gtšig re* is invariably reduced to *re* "one each," as in *mi lñā-la lug re yod* "The five men have one sheep each" (and not ?*mi lñā-la lug gtšig re yod*), as opposed, say, to *mi lñā-la lug gtšig yod* "The five men have one sheep collectively." Similarly, note such patterns as *mi lñā re-la lug re yod* "Each five men have one sheep," *mi re-la lug lñā re yod* "Each man has five sheep," *mi re-la lug re yod* "Each man has one sheep" (and not ?*mi re-la lug gtšig yod*). Thus too we find such sentences as *mi res lug lñā re bsad* "Each man killed five five sheep" and *ñin re-la lug re gsod* "He kills a sheep each day."

In addition, beginning with the earliest archaic texts, we find distributives expressed by reduplication of the numeral—for example, in an administrative memorandum from a Central Asian garrison commander, *li-tšeñ-mams kyañ šog-šog yug re ltšag btsu-btšui thañ-tu rgyab tšad-gyis tšod-par gtšado* "Also, the officers will punish them by flogging at a rate of ten lashes for each roll of paper."³³ Hence in the later classical texts as well we encounter such distributive patterns as *mi re-la lug lñā-lñā yod* "Each man has five sheep,"

³² The distributive selector *re* "EACH" should be distinguished from the *re* < **res* in the stereotyped expression *re-žig* "a little while; once upon a time." In the archaic manuscripts from Central Asia, this latter expression appears to be written consistently as *re-šig*, indicating an origin in an earlier noun-selector collocation **res-šig* "one turn, one time, some time." The underlying noun *res* "time, turn, relay" is found, for example, in an administrative memorandum from an oasis garrison commander, saying *dei res-la ra-lug ndi-mams rgyab btšug-nu myi-ruñ* "It is not proper to send back these goats and sheep in turn"; or, in the Tibetan translation of the Chinese *Mdzañs-blun žes bya-bai mdo, da ñed byed-pai res-la bab* "Now it has come to be our turn to act." From there it is a short step to, for example, *re-šig re-šig-na kha-ba mtho dgu ni gram-nas babste* "At one time, one time, the snow had fallen from the sky nine feet deep," found in a mythic text from the caves near Tun-huang; or, in another text, telling the story of two mythical horses, *da re-šig-na nu rkyāñ-ron rñog-bkra-dañ khug-ron rmañ-dar gñis-kis, rta-skad ni tsher-tsher, rmañ-skad ni tsher-tsher žeo* "Now at one time the younger brother Rkyāñ-ron rñog-bkra and Khug-ron rmañ-dar both said, in horse language, *tsher-tsher*, in steed language, *tsher-tsher*."

³³ Paper was, of course, a valuable commodity on the Central Asian frontier, and a number of memoranda are devoted to the subject. This text, in part, describes what will happen to a *gñier-pa* "quartermaster" who does not fill his paper quota. The reduplication in *šog-šog* "paper" is lexical and not distributive. The term *li-tšeñ* "officer" is apparently a Middle Chinese loanword, from **hyi-ywen* "government official" or a similar term.

instead of *mi re-la lug lña re yod*. Sometimes the distributive *re* is itself reduplicated, as in the proverb *mi re-re-la bsam-pa re-re yod* "Each man has his own thought/There is no accounting for taste."

3.1.1.1.2.1.9. Weights and measures

Various weights and measures are found mentioned in the classical texts. Many of these seem relatively informal—thus, *do* “a load of —,” *sgam* “a box of —,” *kha* “a piece of —,”³⁴ *nbo* “a basket of —.” Other terms are apparently part of measure systems: thus for LENGTH we find *sor-mo* “inch,” *mtho* “span,” *khru* “cubit,” *ndom* “fathom”; for VOLUME we find *bre* “measure,” *khal* “bushel/load = 20 *bre*"; for WEIGHT we find *skar-ma* “one point on the steelyard,” *žo* “dram = 10 *skar-ma*,” *srañ* “ounce = 10 *žo*.³⁵

Weights and measures are defined syntactically by occurrence not only with *gtšig* “one” and *gñis* “two” but also often with *gañ* “a full —” and *do* “a double —,” as in *mtho gañ* “one span,” *bre do* “two measures,” *khru gañ* “a full cubit,” *srañ do* “a double ounce.” Numerals greater than two appear in regular form—thus *gser gžoñs-pa gañ* “a tubful of gold” but *gser žo sum-brgya* “three hundred drams of gold.”

³⁴ In modern Tibetan, a *kha* is a square of cloth—or, put another way, a piece of cloth as long as that particular roll of cloth is wide.

³⁵ Money in Tibetan is often expressed as weights of silver. The term for “coin” or money generally is *doñ-tse~doñ-tshe~doñ-rse* < Middle Chinese **dhuñ-isi*. The least valuable coin in use was traditionally the copper *kha*, which was worth, in terms of silver, a weight of about two and a half *skar-ma*. Thus two *kha* were equivalent to *skar-ma lña* “five points on the steelyard,” three *kha* to *skar-ma phyed-brgyad* “seven and a half points,” and four *kha* to *skar-ma bišu* “ten points,” which was the same as one *žo* “dram” or one-tenth *dñul-srañ* “silver *srañ*.”

Six *kha* were equivalent to one *dñul-gyi doñ-tse* “silver coin” or *tañka-dñul-tañ* < Sanskrit *tañkaka* (compare Hindi *tañga*) “stamped silver coin.” Forty *kha*, of course, equalled ten *žo* or one *srañ* of silver. Fifty silver *srañ* were the equivalent of a bar of silver bullion, weighing about four pounds, widely used for trading in Central Asia, and variously called *rdo-tshad* “stone-weight,” *rita-rmiig-ma* “horse-hoof,” and *yam-bu* “Kathmandu.”

3.1.1.1.2.1.10. Pagination

In Tibetan books, VOLUME numbers are often expressed by letters in Tibetan alphabetical order (the equivalent of our formalized Roman numerals for the same purpose)—thus *ka* = 1, *kha* = 2, *ga* = 3, and so on through *?a* = 30; then *ki* through *?i* = 31 through 60, *ku* through *?u* = 61 through 90, and so on through *?o* = 150. Even larger numbers may be expressed using long vowels, written with subscript *a-tshuñ*—thus *kā* through *?ā* = 151 through 180, *kī* through *?ī* = 181 through 210, and so on through *?ō* = 300.³⁶

These numerals can be made into ordinals by suffixing the formative *-pa*—thus *ka-pa* “the *kath* (volume) → Volume I,” *ki-pa* “the *kith* (volume) → Volume XXXI.” These ordinals are often found with locus or adverb particles in footnotes, indices, and catalogues—for example, *ñā-pa-la* “in the *ñāth* → in Volume IV,” *?i-par* “in the *?ith* → in Volume LX.”

PAGE numbers are always written out and are invariably clipped. Each folio in a book is paginated separately, usually along the left-hand margin of the *recto*; the left-hand margin of the *verso* often contains the short title of the text. Where a distinction is made between sides of a folio, the *recto* is called *goñ-ma* “upper” and the *verso* is called *og-ma* “lower”—thus *re-gtšig goñ-ma* “folio 61a,” *sum-brgya go-bdun og-ma* “folio 397b”—or sometimes *mdun* “front” and *rgyab* “back,” respectively.

Occasionally folios are paginated in the margin with volume number as well—for example, *ga don-drug* “Volume III folio 76,” *kha gya-sum goñ-ma* “Volume II folio 83a.” Where several independently paginated texts have been collected into a single volume (for example, in a uniform edition of several different rituals for a particular deity), both volume and text may be given alongside the folio number—thus *tu dia ñer-gtšig* “Volume IX Work VII folio 21,” *tṣa tsa bišo-brgyad* “Volume V Work XVII folio 18.” The final folio of a text is often marked by the word *byon* “finished” after the folio number; where a text is only one folio long, that folio is sometimes paginated as *gtšig-puo* “solitary,” but more often as *bse-rū* “rhinoceros,” an animal that traditionally wanders alone.

³⁶ There are variants on this scheme—for example, *ka* = 1, *ki* = 2, *ku* = 3, *ke* = 4, *ko* = 5, *kha* = 6, and so on. Sometimes, also, volumes are numbered by the use of stock phrases—thus, for example, *om* = 1, *āḥ* = 2, *hūm* = 3; or *ñi* = 1, *zla* = 2; or *e* = 1, *wam* = 2, *ma* = 3, *yā* = 4; and so on.

3.1.1.1.2.2. PLURALS

The older PLURALS include *-dag* (perhaps the most common quantifier in the archaic Central Asian manuscripts), *-tsho* (in the most ancient materials *tshogs~mtshogs* "multitude"),³⁷ and *-tsag* (only after personal determiners even in the oldest texts). All these plurals may be glossed, simply, as "MORE THAN ONE"—thus, for example, *bla-ma-dag* "lamas," *tshoñ-pa-tsho* "merchants," *ñed-tsag* "we."³⁸ Fairly frequent in the Central Asian manuscripts—and completely absent in this usage in the later material—is the plural *-o-tsog~-tshog*; we find, for example, *myio-tsog* "people," *srin-no-tshog* "demons," *lhao-tshog* "gods," *nam-ti-go-tsog* "Nam-tig folk."³⁹

In the course of time, these older plurals fell into disuse, to be largely replaced by the newer SELECTOR *-mams*. After the ninth century, the plural *-dag* is found, where it is used at all, primarily after numerals and determiners, sometimes in the collocation *-dag-mams*. Otherwise it is found only to translate the Sanskrit dual number and vocative plural, a specialization that is the mark of its demise. The plural *-tsho* similarly occurs, with decreasing frequency, primarily after determiners and numerals of 100,000 or larger; *-tsag* continues to appear sporadically, still exclusively after personal determiners.

3.1.1.1.2.3. TOTALIZERS

TOTALIZERS are terms of extent that occur after a plural and before a selector—*kho-na* "no more than," *sñed* "no less than," *tsam* "as much as," *srid* "as long as." As these glosses indicate, these four totalizers compare the specified nominal to some stated or implied reference size or number. The totalizer *kho-na* specifies the nominal as limited in quantity to that reference,

³⁷ For example, *lus-ñtshogs* "bodies," *dad-ñtshogs* "wishes." Note the many early variations in what comes later to be standardized as *la-sogs-pa* "and so forth"—for example, *la-stsogs~lashtsogs~las-bsogs-pa~las-tsogs*—which, again, seem related to *tshogs~mtshogs* "multitude."

³⁸ Note that all of these plurals can occur after personal determiners, as in *ñed-dag~ñed-tsho~ñed-tsag* "we"; it is just that *-tsag* occurs ONLY after personal determiners.

³⁹ Here *-o* seems to be the same as the determiner *o* discussed above; and *-tsog~tshog* may be related either to *-tsag* on the one hand (compare the forms *o-tsag~u-tsag* "we," also discussed above), or to *tshogs~mtshogs* "multitude" on the other.

which may, of course, be either one or more than one—thus *sañś-rgyas kho-na* “the Buddha alone,” *skad-tśig kho-na* “no more than a moment,” *sdig-pa kho-na* “only sin.” In the Tibetan translation of the *Abhidharmakośabhāṣya* by Vasubandhu we find *dei phyir ḥnon-moñis-pai sa tshen-po-pa ni drug-po KHO-NA-r ngrub-bo, de-dag kyañ rtag-tu ḥnon-moñis-pa-tśan-gyi sems KHO-NA-la nbyuñ-gi gžan-du ma-yin-no* “Thus, the defiled elements are shown to be JUST the six; and they always occur ONLY in defiled consciousness, and not elsewhere”; Sa-skya pañdita, in his *Legs-par bśad-pa rin-po-tshai gter*, writes *bde-spyod sdug-bsñal KHO-NA-i rgyu* “The practice of pleasure is the cause of NOTHING BUT suffering,” *bsod-nams KHO-NA phun-tshogs rgyu* “Merit ALONE is the cause of perfection.”⁴⁰ In contrast, the totalizer *sñed* specifies the nominal as being at least the size of that reference if not more—*stoñ sñed* “at least a thousand,” *yon-tan ndi-sñed* “so many virtues.” The totalizer *tsam* specifies the nominal as being just the same as—or, at least, just about the same as—the reference in size or number—thus *lña tsam* “just five,” *mi ndi tsam* “this many men,” *ri-rab tsam* “the size of Mount Meru,” *yuris-nbru tsam* “the size of a mustard seed.” In the Tibetan translation of the *Vajracchedikā Prajñāpāramitā* we find Sanskrit *catuspādikām api gāthām udgrhya parebhyo deśayet* Tibetan *tshig bzī-pai tshigs-su bśad-pa TSAM bzuñ-nas gžan-dag-la yañ bśad-de* “When one has grasped JUST this four-line verse and taught it to others . . .”; Sa-skya pañdita writes *bdag-ñid tshé-la phan-btags-na, tšuñ-zad TSAM-laañ nbras-bu nbyin* “If one is helpful to a great being, it yields its fruit even for JUST a small thing”; and, in the biography of Mi-la ras-pa, when Mar-pa summons a magical army to subdue his kinsmen, they cry out *mar-pa lo-tstshas dmag de TSAM gañ-nas bos-pa-na* “Whence could Mar-pa the Translator have summoned an army OF THAT SIZE?” And the totalizer *srid* specifies the nominal as being just the same as the reference in length, with regard both

⁴⁰ The Tibetan grammarians, following the Sanskrit tradition, make this distinction: the proposition *sañś-rgyas kho-na yon-tan-dañ ldn* is a *gžan-ldn mnam-giśod* “comparative limitation (*anyayoga-vyavaccheda*)” and thus means “The Buddha has virtue, and no one else,” while the proposition *sañś-rgyas yon-tan-dañ ldn-pa kho-na* is a *mi-ldn mnam-giśod* “noncomparative limitation (*ayoga-vyavaccheda*)” and thus means “The Buddha has virtue, and nothing else.”

Note some further examples from Sa-skya pañdita—*nbab-tshu dži-ltar bzlog gyur-kyāñ, thur-du nbab-pa kho-nar ndod* “However you dam up a river, it still wants nothing but to flow downward,” *blun-po nbyor-par gyur-tshe yañ, rtrod-pa kho-nas rañ-gžan bsreg* “A fool, even when he has become rich, consumes himself and others with nothing but quarrels,” *rañ-don kho-na gtos byed-pa, de-yis rañ-don ngrub mi-srid* “It is impossible to accomplish one's own aim by putting one's own aim alone foremost.”

to size and time, as in *de srid-kyi bar-du* "for so long a time."

3.1.1.1.2.4. SELECTORS

The SELECTORS found in the classical texts are *-mams*, *-tṣig*, *thams-tṣad*, and *kun*. Selectors, unlike plurals, do not specify simply that there is more than one entity referred to; instead, selectors specify what we can call the RANGE of entities referred to in the set denoted by the nominal, rather like English *one/a*, *some/sm*,⁴¹ *all*.

The selector *-mams* "SEPARATE UNITS" is etymologically connected with the noun *mam-pa* "piece, part, section, item, installment, individual,"⁴² and thus marks the nominal phrase as consisting of things or persons taken individually, and hence, by implication, as plural: we can compare *od-zer mam-pa bži* "four (separate) beams of light" with *od-zer-mams* "beams of light," *mi mam-pa gnis* "two (sorts of) man" with *mi-mams* "men," and *żal-zas mam-pa* "the separate dishes of a meal" with *żal-zas-mams* "food/foods."

It should be borne in mind that *-mams* is not a plural: *rdo-mams* does not mean "rocks/more than one rock" so much as it means "rocks/pieces of rock," just as *nbras-mams* means "portions of rice/grains of rice," *tshu-mams* means "bowls of water/bodies of water," *ba-mams* means "head of cattle," *sog-bu-mams* means "pieces of paper," and *x-mams* means "appropriate units of x." This reading is borne out by the archaic Central Asian manu-

⁴¹ In English we can distinguish the word *some* in, say, *Some people are never satisfied* from the word *some/sm* in, say, *Give me sm beer*. It is this latter *some* which is comparable to Tibetan selectors; the former *some* represents the term "SOME/ANY" (note the related question *Are any people ever satisfied?*) and is expressed in Tibetan primarily by indefinite determiners.

⁴² Among the archaic Tibetan manuscripts found at the oasis garrisons of Central Asia we find, for example, *ślun gsol-gi mtshid-yig śiar RNAM du-ma-žig gsol-na lan ma-mtshis* "Although I have previously sent respectful letters inquiring about your illness on several OCCASIONS, you have not made reply," *blon koñ-gi gsol-tshig RNAM-tshig-las bdag-gi phu-bo klu-bžer khar-tsa-tshin rhiñ-pai stoñ-dpon mtshal žes gsol* "In one EXAMPLE of a petition by Minister Koñ he asks, 'Appoint my elder brother Klu-bžer Commander-of-the-Thousand of Old Khar-tsa-tshin,'" *rgyu-god-kyi phyag-rgya RNAM gtshig nod-du gsol* "We ask to receive one authorization for expenses," *myes-poi mtshid-drin ndi RNAM gnis-las ma-mtshis* "We have had only these two PIECES of kind correspondence as to our grandfather."

scripts, where the relationship "units of" is made explicit by the adnominal particle—for example, *rgyud-npheld-kyi mams* "descendents," *nphags-pai mams* "nobility," *sgo-lhai mams* "personal gods," *dbañ-thañ-tšan-dañ gtan-žiñ-gi mams* "ones with power and with fixed fields." Thus, too, we find *ñi-og-gi rgyal-khams-na rgyal-phran mtšhis-pai mams sems myi-bde-žiñ srid šor-du dogs-pai mams kyañ srid-la myi-dbab-tšiñ sems bde* "In the kingdoms of the west, even those who were lesser sovereigns, those who were unhappy and feared to lose their dominion, were not cast down from their dominion and are happy."

The selector *-tšig* "ONE/SM" (which becomes *-tšig* after preceding final *-g*, *-d*, *-b*; becomes *-žig* after preceding final *-ñ*, *-n*, *-m*, *-r*, *-l*, and open syllables; and becomes *-šig* after preceding final or postfinal *-s*) is clearly related to the numeral *gtšig* "one," and it specifies the nominal as consisting, not simply of one entity, but of one or more entities taken as a single unit rather than individually—thus *mi-žig* "a man/sm men/someone," *šiñ-žig* "a tree/some firewood," *mi mañ-po-žig* "(a group of) many men," *mi bži-žig* "(a group of) four men/some four men." Where the selector *-mams* implies internal differentiation or multiplicity, the selector *-tšig* implies internal homogeneity or simplicity. Both ranges are independent of plurality: we find both *mi-dag-mams* "men" and *mi-dag-tšig* "men." Note, too, the magic teacher's remark to Mi-la, *mi-rgan ñas mthu-gtad-ser gsum-žig-la las byas* "This old man has worked in three things—magic, curses, and hailstorms."

The selectors *kun* and *thams-tšad* "ALL"⁴³ specify the nominal phrase as consisting of the entirety of one or more things or persons, taken either individually or as a unit, rather than as consisting of fewer or less than the whole—thus *lus thams-tšad* means "all bodies/the whole body," *rgyal-khams kun* means "all kingdoms/the entire kingdom," *dge-sloñ thams-tšad* means "all monks/each monk/every monk," *dge-ndun kun* means "all communities/the whole community/every community." Again, the notion of entirety is independent of plurality—we find both *mi thams-tšad~mi kun* "all men" and *mi-dag thams-tšad~mi-dag kun* "all men."

⁴³ The word *thams-tšad* may be related to the verb *GTAM~LTAM* "be full" and the specialized adjective *tham-pa* "full, round, even (of numerals)." In some archaic Central Asian manuscripts we find the form *tham-zin*.

3.1.1.2. *Adnominals*

An ADNOMINAL is a nominal phrase with the ADNOMINAL PARTICLE *-kyi* which immediately precedes and modifies a nominal head—thus, for example, *byui sder-mo* “bird’s claw,” *gser-gyi bum-pa* “golden vessel,” *dkar-poi phreñ-ba* “white rosary,” *rgyal-po tshen-poi mdzod* “treasury of the great king,” *bla-ma tshen-po ndi-nams kun-gyi bsod-nams* “the merit of all these great lamas,” *bla-ma rgan-poi sñiñ-rdže tshen-poi mthu* “the power of the old lama’s great compassion.” This subordinate adnominal always limits or qualifies the head in some way: the set designated by the modified head is a proper subset of the set designated by the head alone; the adnominal answers the question “What sort of —?” with reference to the head.

The adnominal particle is *-kyi*. The capitalization indicates that the particle undergoes regular morphophonemic changes according to the final or postfinal of the preceding syllable. Thus *-kyi* becomes *-gi* after preceding final *-g* and *-ñ*; becomes *-kyi* after preceding final *-d*, *-b*, *-s*; and becomes *-gyi* after preceding final *-n*, *-m*, *-r*, *-l*—thus *bdag-gi*, *rañ-gi*, *bod-kyi*, *rab-kyi*, *gos-kyi*, *bon-gyi*, *lam-gyi*, *phur-gyi*, *bal-gyi*. A preceding open syllable becomes a diphthong with *-i*—thus *dgai*, *spyii*, *rgyui*, *bdei*, *bloi*. In poetry, when an extra syllable is needed for metrical purposes, an open syllable may be followed by *-yi* instead of *-i*—thus *dga-yi* instead of *dgai*, *spyi-yi* instead of *spyii*, and so on. All forms in *KY-* undergo these same morphophonological changes.

3.1.1.2.1. BASIC MODIFICATION PATTERNS

There are four basic adnominal modification patterns, where both head and modifier consist of a single nominal—(1) NOUN-*KYI* NOUN, as in *gser-gyi ri* “mountain of gold, golden mountain,” *rii gser* “mountain gold, gold from the mountains,” (2) ADJECTIVE-*KYI* NOUN, as in *dkar-poi phreñ-ba* “rosary of white, white rosary,” *bzañ-poi rgyal-po* “king of virtue, virtuous king” or—if the adjective is read as a headless modifier—“king of the virtuous,” (3) ADJECTIVE-*KYI* ADJECTIVE, as in *bzañ-poi tshen-po* “greatness of virtue, virtuous greatness,” or—read as a headless modifier—“greatness of the virtuous,” *dam-pai bzañ-po* “virtue of holiness, holy virtue,” or—read as a headless modifier—“virtue of the holy,” and (4) NOUN-*KYI* ADJECTIVE, as in *rgyal-poi tshen-po* “greatness of the king, royal greatness,” *dge-sloñ-gi dam-pa* “holiness of the monk, cenobitic holiness.”

This last modification pattern is relatively rare, but it is a favorite device of the poet Pad-ma dkar-po, who often uses such phrases as *sñags-nišhañ-gi nago* "blackness of sorcerors," *rgya-stag-gi khra-bo* "spottedness of the tiger," *brag-dmar-gyi mthon-po* "heights of the red rocks," *g.yu-misho-yi sñon-mo* "blue of the turquoise lakes." As we will have occasion to note from time to time in this text, part of the interest of Pad-ma dkar-po as a poet lies in his willingness to utilize such previously unexploited Tibetan syntactic resources.

3.1.1.2.2. TYPES OF MODIFICATION

Where the head of the modifying adnominal is a noun, the Tibetan grammarians traditionally distinguish four sorts of *nbrel-ba* "connections" between that modifier and its head—*yan-lag-dañ yan-lag-tšan* "part and whole," as in *śin-gi yal-ga* "tree branch," *byai sder-mo* "bird claws"; *rten-dañ brten-pa* "residence and resident," as in *groñ-pai mi* "village man," *yul-gyi lha* "local deity"; *ño-bo gtšig-pa* "identical substance," as in *gser-gyi bum-pa* "golden vessel," *tsan-dan-gyi ka-ba* "pillar of sandalwood"; and *bdag-po-dañ yul* "owner and object," as in *rgyal-poi mdzod* "king's treasury," *bla-mai phren-ba* "lama's rosary." The particular reading, of course, depends on the semantics of the nouns involved. Note that there is in Tibetan no SYNTACTIC difference between, say, *rgyal-poi me-tog* and *rii me-tog* to reflect the fact that the adnominal is animate in one phrase but not in the other. In English, that fact can make a syntactic difference: we say *king's flowers* but not, generally, *?mountain's flowers* (but both *royal flowers* and *mountain flowers*); that we would TRANSLATE those phrases, respectively, as "flowers OF the king" and "flowers ON the mountain" is simply a peculiarity of English. Note the parallel with the propositions *rgyal-po-LA me-tog yod* "The king HAS flowers" and *rii-LA me-tog yod* "There are flowers ON the mountain."⁴⁴

⁴⁴ Note that adnominal modification is the only way of expressing such relationships as possession and location within a nominal phrase. The modification of a noun by another noun in a nominal—for example, *bla-ma sprul-sku*—can be read only as *ño-bo gtšig-pa* "identical substance," and thus only as "lama WHO IS an incarnation." Thus, too, we can find *rii me-tog* "mountain flowers" but not—at least not in the same sense—*?me-tog ri*. The semantic relation of possession seems to be related to the fact that an adnominal—being a nominal phrase—can be quantified independently of its head, whereas a nominal modifier cannot. In *bla-ma sprul-sku* "lama who is an incarnation" there are precisely as many incarnations as there are lamas; but in *sprul-skui bla-ma* the two designated sets may in fact be identical—and thus "lama who is an incarnation"—or they may be quantified separately,

3.1.1.2.3. RECURSION

The adnominal may itself be a nominal phrase of any length and complexity, even one containing further adnominals. The modifying nominal phrase may consist of a single nominal, of a nominal plus determiner or quantifier, or a nominal preceded by an adnominal. This recursiveness allows for successive embeddings of adnominals within adnominals to the limits of stylistic tolerance—normally perhaps three adnominals in a row, and perhaps five at the stylistic maximum—as in *dgon-pai bla-mai gser-gyi phreñ-ba* “the golden rosary of the monastery’s lama,” *dgon-pai bla-mai gser-gyi phreñ-bai mthu-stobs-kyi nbras-bu* “the results of the magic power of the golden rosary of the monastery’s lama.”

A Tibetan author clearly has considerable liberty both in the extent to which he modifies the head nominals in his text and in the syntactic patterns he may use to do so; such choices collectively constitute what we can call the MODIFIER STYLE of a particular author. A primary choice is simply how much nominal modification there will be in the text.⁴⁵ Long modifier sequences

as in *sprul-sku gtšig-gi bla-ma-dag* “the one incarnation’s several lamas,” or *sprul-sku-mams-kyi bla-ma* “the lama of the several incarnations.” Only a modifying nominal phrase can be thus quantified independently of its head; thus it is only the adnominal modifier that can indicate possession.

⁴⁵ In English literary history, we find periods when highly modified styles were felt to be “elevated” or—as the eighteenth-century poets put it—“sublime,” as well as contrasting periods when more sparsely modified styles were admired as “plain.” Often too the individual style of a particular author can be related to predominant patterns of modifier and head: the following passage from D. H. Lawrence’s short story *The Border Line* is characteristic of his modifier style:

The flat, grey, wintry landscape, ploughed fields of greyish earth that looked as if they were compounded of the clay of dead men. Pallid, stark, thin trees stood like wire beside straight, abstract roads. A ruined farm between a few more trees. And a dismal village filed past, with smashed houses like rotten teeth between the straight rows of the village street.

In this passage there are eighteen adjectives to fifteen nouns; and we can contrast this style with the following similarly characteristic passage from Ernest Hemingway’s *Big Two-hearted River*, which contains one modifier-head combination to Lawrence’s thirteen:

Nick slipped off his pack and lay down in the shade. He lay on his back and

easily become rhythmic and incantatory, whether adjectives (as in Gerard Manley Hopkins' "Earnest, earthless, equal, attuneable, vaulty, voluminous,

looked up into the pine trees. His neck and back and the small of his back rested as he stretched. The earth felt good against his back. He looked up at the sky, through the branches, and then shut his eyes. He opened them and looked up again.

Similarly, we can cite the following stanza from Robert Lowell's "Hawthorne," where the effect of slow deliberateness is created by its phonological and syntactic repetition:

Follow its lazy main street lounging
from the alms house to Gallows Hill
along a flat, unvaried surface
covered with wooden houses
aged by yellow drain
like the unhealthy hair of an old dog . . .

Compare this stanza with the poem "The Hope" by David Ignatow, whose single modifier-head combination carries, by its syntactic isolation as well as by its final position, a proportionately greater share of the semantic burden of the poem:

In the woods as the trees fade in the dusk
I am unable to speak or to gesture.
I lie down to warm myself against the ground.
If I live through the night
I will be a species
related to the tree
and the cold dark.

From the archaic materials available to us, it appears that early Tibetan poetry and prose favored "plain" rather than "elevated" styles, and was sparing in modifiers, although rich in simile. Later Tibetan poetry, on the other hand, borrowed an increasingly ornate style from its Sanskrit models; Indic handbooks of poetic ornament—particularly the *Kāvyādarśa* of Dandan—were translated and studied, and their complex and extended metaphors were often rendered in Tibetan as highly layered modifiers. This was especially true of genres borrowed from Sanskrit Buddhist devotional literature: Tibetan encomia, hymns, and prayers base both their vocabulary and syntax on such occasionally florid works as the *Samantabhadracaryāprānidhāna*, the *Buddhacarita* of Aśvaghoṣa, the *Śatapañcāṣatka* of Mātṛceṭa, the *Jātakamūla* of Āryaśūra, and the *Bodhicaryāvatāra* of Śāntideva. The native Tibetan poetic genres—the repartee songs and riddles, smoke offering rituals, and the great epic of Ge-sar—were less affected by the Indic "sublime," and some Indic forms, such as the mystic song, were in fact effectively Tibetanized and assimilated to Tibetan folksong.

stupendous evening . . .") or adnominals (as in D.H. Lawrence's "The pulse of the blood of the teats of the cows beat into the pulse of the hands of the men"). Such literary effects are sought in Tibetan particularly in the ritual evocation of deities in contemplative texts. Thus, in the *Sñan-brgyud bskyed-rim rgyas-pa* of Pad-ma dkar-po—a ritual evocation of Cakrasamvara—we find such highly layered adjective sequences as *biśom-ldan-ndas dpal rdo-rdže sems-dpa sku-mdog dkar-po žal-gšig phyag-gñis rdo-rdže-dañ dril-bu ndzin-pas yum-la nkhyud-pa* "the blessed glorious white-colored one-headed Vajrasattva with two hands which hold vajra and bell embracing the Mother . . ."; and such highly layered adnominal sequences as *āḥ-las byuñ-bai zla-bai steñ-du hūm-las skyes-pai rdo-rdže* "a vajra born from a *hūm* on top of a moon arisen from an *āḥ* . . ."

Another area of choice lies in the syntactic pattern of such modification. A poet in English, for example, can choose between left-branching modifier sequences (as in Matthew Arnold's "The unplumbed, salt, estranging sea") and right-branching modifier sequences (as in Robert Creeley's "I can see you, hairy, extended, vulnerable . . ."). A poet in Tibetan can create often complex modifier structures as a syntactic skeleton which is then clothed with lexical flesh. For example, Tsoñ-kha-pa, in his *Dgoñs-pa rab-gsal* commentary on the *Madhyamakāvatāra* of Candrakīrti, writes as follows:

*zab-tsiñ rgya-tshei legs-bśad kun-gyi gter,
ndžig-ten kui-gyi ma-ndris mdza-bśes-te,
sa-gsum ngro-la lam-bzañ mtshon-pai mig,
thub-dbañ smra-bai ñi-mas rtag-tu skyoñis*

Treasure of all the deep broad maxims,
Unasked friend of all the world,
Eye which shows the good path to beings of the three realms,
Sun of the master's teachings—ever protect us!

This verse is built on the fourfold equation *gter* "treasure" = *mdza-bśes* "friend" = *mig* "eye" = *ñi-ma* "sun." Each of these four heads is modified by two preceding adnominals, explicitly in the first line and implicitly in three places in the following lines: the basic pattern of each of the four lines is thus MODIFIER-KYI MODIFIER-KYI HEAD; and this reiterated syntactic symmetry underlies and reinforces the semantic parallelism of the metaphors expressed in the verse.

A more complex pattern is found in a song by Mi-la ras-pa, when he rebukes his wicked aunt—who stole his lands from him—for her greed. The first few verses establish the following modifier pattern:

*skye-boi so-nam sdig-pai las
spyat-na ñan-soñ-gi sdug-bsñal myoñ*

The husbandry of mankind is the doing of evil:
if you do it, you taste the suffering of evil destiny.

*ñe-dui gduñ-sems bdud-kyi mkhar
brtsegs-na me-obs-kyi nañ-du tshud*

The love of family is a castle of demons:
if you build it, you fall into a pit of flames.

The basic pattern of each verse is thus

(MODIFIER-KYI HEAD) = (MODIFIER-KYI HEAD)
(NOMINALIZED VERB)((MODIFIER-KYI HEAD) VERB).

These general moral propositions are continued for several more verses, embodied in this repeated syntactic form; and this pattern is then applied, with considerable rhetorical force, to the particular occasion:

*?a-nei žiñ-rin ser-snai rdzas
zos-na yi-dwags-kyi gnas-su skye*

My aunt's cost for the fields is the stuff of greed:
if you eat it, you will be born among the hungry ghosts.

3.1.1.2.4. HEADLESS ADNOMINALS

When the nominal phrase head of an adnominal modifier has been omitted, the remaining headless adnominal may be a patient participant in an equative construction. For example, in the proposition *nbras ndi bla-mai yin* "This rice is the lama's," the omitted head of the adnominal modifier *bla-mai* is processed as coreferential with some prior element of the discourse. If what is being discussed is rice, the proposition would be processed as meaning "This rice is the lama's RICE." But if what is being discussed is, say, not rice but offerings, the proposition would be read as "This rice is the lama's

OFFERING." Where such ellipsis refers back to old information in the same proposition, that information too may be omitted under the Telegram Principle, and—depending on stylistic considerations of density—we might encounter such laconic constructions as *bla-mai yin* "What we are talking about—that's the lama's," or even the minimal *bla-mao*.

3.1.2. Conjoined nominal phrases

A NOMINAL CONJUNCTION is a particle that joins nominal phrases together. An indefinite number of nominal phrases can be linked together by such conjunctions; this horizontal expansion can extend to the limits of stylistic tolerance, which in the classical language seem to be quite broad. Thus the series "PHRASE and PHRASE and . . . PHRASE" may reach some length before it becomes a PARTICIPANT by the addition of a role particle.

All phrases so conjoined, no matter how long or complex the conjunction, still constitute a single participant—thus (*bla-ma-dañ rgyal-po*)-Ø *ngro* "The lama-and-king go," *bla-mas* (*bgegs-dañ ndre*)-Ø *btul* "The lama tamed demons-and-spirits," *tshos* (*ri-dañ luñ-pa*)-*la dar* "The dharma spread to mountain-and-valley," *rgyal-pos* (*mduññam ral-gri*)-*s dgra bsad* "The king will slay the enemy with lance-or-sword."

In the classical language there are two types of nominal conjunction—ALTERNATIVE ("PHRASE or PHRASE") and COORDINATIVE ("PHRASE and PHRASE"). The ALTERNATIVE CONJUNCTION PARTICLE is *-Am*.⁴⁶ The hyphen indicates that the form is BOUND and occurs only with an immediately preceding nominal. The capitalization indicates that the vowel prefixes to itself the last consonant of the preceding syllable coda—thus *dag-gam*, *mdaññam*, *skyid-dam*, *dben-nam*, *ndab-bam*, *gtum-mam*, *dar-ram*, *dal-lam*, and *phyogs-sam*. A preceding open syllable becomes a diphthong—thus *mdaam*, *khyiam*, *rgyuam*, *dgeam*, and *bloam*. In the scansion of verse such diphthongs may occasionally be counted as two syllables for the purposes of meter.

The alternative conjunction offers a choice between two or more possibilities,

⁴⁶ We will note here only briefly that this is clearly the same as the propositional conjunction *-Am* and the sentence-final question particle *-Am*. We can hypothesize—and will, at greater length, later—that the Tibetan interrogative is derived ultimately from an underlying alternative conjunction.

one or both of which may be true—for example, *rgyal-poam bla-ma-s bgegs gdul* “The king or the lama will tame the demon.” The conjoined noun phrases can be as long and complex as stylistic tolerance permits—*rgyal-pos gser-gyi ral-gri tshen-poam sñags gsañ-ba-s bgegs gdul* “The king will tame the demon with a great golden sword or secret spell.”

The COORDINATIVE CONJUNCTION PARTICLE is *-dañ*.⁴⁷ The coordinative conjunction asserts two or more possibilities, all of which are taken to be true—for example, *rgyal-po-dañ bla-ma-s bgegs gdul* “the king and the lama will tame the demon.” Again, the conjoined noun phrases can be as long and complex as stylistic tolerance permits—*rgyal-pos gser-gyi ral-gri tshen-po-dañ sñags gsañ-ba-s bgegs gdul* “The king will tame the demon with a great golden sword and a secret spell.”

In both types of conjunction it is expected—and in an extended sense perhaps even mandatory—for the conjoined phrases to have some theme in common; thus we can expect also to find thematic elements omitted from latter members of the conjunction, as in, for example, *las dkar-poam nag-po* “good deeds or bad,” *dge-sloñ gñis-sam gsum* “two or three monks,” *mi dbul-ba-dañ phyug-po* “men both rich and poor.” In addition, we can find coordinations of some length—for example, *gser-dañ dñul-dañ ltsags* “gold and silver and iron,” *sa-dañ tshu-dañ me-dañ rluñ* “earth and water and fire and air.” In such cases, all the conjunction particles can be omitted—thus, for example, *skyé rga na nñshi* “birth and old age and sickness and death”; or one conjunction can be retained, just as in English, except that in Tibetan what is retained is generally the first rather than the last conjunction—thus, for example, *sa-dañ tshu me rluñ* “earth, fire, water, and air.” Such lists are often concluded with a summary numeral, as in *lus ñag yid gsum* “the three: body, speech, and mind,” *dpon gyog gñis* “the two: master and servant,” *bzañ ñan nñriñ gsum* “the three: good, bad, and indifferent”; and then, too, the last conjunction may be retained, as in *sa tshu me rluñ-dañ bži* “the four: earth, water, fire, and wind,” *mthu ser brtad-dañ gsum* “the three: witchcraft and hailstorms and curses.”

⁴⁷ The nominal phrase conjunction *-dañ* is the same as the accompaniment role particle *-dañ*. Thus a construction such as *bla-ma-dañ rgyal-po ngro* is syntactically ambiguous between the CONJUNCTION reading (*bla-ma-dañ rgyal-po*)-Ø *ngro* “The king-and-lama go” and the ACCOMPANIMENT reading (*bla-ma-dañ*) (*rgyal-po*-Ø) *ngro* “The king goes with the lama.” On the other hand, the construction *rgyal-po bla-ma-dañ ngro* can only be read as (*rgyal-po*-Ø) (*bla-ma-dañ*) *ngro* “The king goes with the lama.”

3.2. VERB PHRASES

3.2.1. Negation

We will in this grammar consider the optional NEGATION to be the specifier of the verb within a verb phrase. Negation is expressed by the negative particle *mi-* "NOT." The capitalization indicates that the vowel undergoes changes according, in this case, to the TENSE of the following verb: the negative particle *mi-* becomes *mi-* before the present and future stems of the verb, and it becomes *ma-* before the past and imperative stems of the verb.⁴⁸ The hyphen indicates that the particle is BOUND and can occur, in this case, only immediately before a verb tense stem. The particle immediately precedes the stem even when the verb is morphologically complex—for example, *TSAÑ-RGYA* "become a Buddha" *log-lta* *sgo-nas ntshañ-mi-rgya* "One does not become a Buddha through wrong views," *mñon-par řes* "perceive clairvoyantly" *dgra-btšom-pas žin kun mñon-par mi-šes* "An arhan does not clairvoyantly perceive all the Buddhas," *mgo-KHOR* "become confused" *khyed-kyi kha-sbyañ-gis ñed mgo-mi-nkhor* "We are not taken in by your eloquence."

Two contractions should be noted. The equative verb *yin* "be," when negated, may optionally be contracted to *min* "is not" in addition to *ma-yin*. Interestingly, the verb *yin* seems to occur only with the *ma-* and not the *mi-* form of the negative particle. In addition, the verb *yod* "exist spatiotemporally" occurs in negated form only as *med* "not exist spatiotemporally/be absent" and not as *?ma-yod*.⁴⁹

In Tibetan, the negative particle *mi-* "NOT" can precede only verbs, and cannot precede nouns or adjectives; it is only the occurrence of an event that can be denied, not the identity of a thing or the extent of a quality. Thus, for example, the proposition *rgyal-pos dgra ma-bsad* "The king did not kill the

⁴⁸ The *ma-* allomorph of the negative particle precedes the same tense stems as are marked with the inflectional suffix *-s*—another indication that past and imperative tenses in Tibetan are perceived as sharing some common feature, which we have taken to be the specification of the event as either actually or potentially COMPLETED.

⁴⁹ It is also interesting to note that the verb *red* "be," like *yin*, seems to occur only with the *ma-* form of the negative particle, and the verb *ndug* "be present" only with the *mi-* form, except in the imperative. I do not know why this is so.

enemy" denies that the killing took place. Other structures are available to deny a particular participant: for example, the proposition *rgyal-po ni dgra bsad-pa ma-yin* "It's not the king who killed the enemy" denies the identification of the king as the enemy-killer. Similarly, one cannot say "Nobody goes"; one must say *su-žig mi-ngro* "Anyone does not go."

3.2.1.1. Term negations

Since the negative particle *mi-* "NOT" cannot precede nouns or adjectives, but only verb stems, we find the noun *bram-ze* "brahman" but not *?mi-bram-ze* for "non-brahman," and the adjective *dmar-po* "red" but not *?mi-dmar-po* for "not-red." Similarly, we can find *mi-tshe-ba* "not big" from the verb *TŠHE* "be big," but not a parallel *?mi-tšen-po* from the adjective *tšen-po* "big."⁵⁰

In Sanskrit, however, the prefix *a-* "NOT" can precede virtually any nominal. Without straining the language, one can say both *brāhmaṇaṁ na paśyati* "He does not see a brahman" and *abrāhmaṇaṁ paśyati* "He sees a non-brahman." To Buddhist philosophers, writing in Sanskrit, the first proposition was an example of *prasajyapratīṣedha* "proposition negation" or "verbally bound negation"; the second was an example of *paryudāsa* "term negation" or "nominally bound negation." The proposition negation denies the seeing; the term negation denies the brahmanhood of the thing seen, and thus implies that something was in fact seen—something that was not a brahman.⁵¹ Such term negations are quite common in the Sanskrit lexicon, and the distinction between proposition negation and term negation became

⁵⁰ That it is the verb *TŠHE* "be big" that is negated in *mi-tshe-ba* "not big," rather than the nominal *tšhe-ba* "big," can be shown by noting that we find *ma-rig-pa* "ignorance" < *RIG* "know" but not a parallel *?ma-rgyus* < *rgyus* "knowledge," and we find *mi-skyid-pa* "unhappy" < *SKYID* "be happy" but not a parallel *?mi-skyid-po* < *skyid-po* "happy." We must thus interpret such nominalizations as *ma-rig-pa* "ignorance" as ((*ma-rig*)-*pa*) rather than as *?(ma-(rig-pa))*, and *mi-skyid-pa* "unhappy" as ((*mi-skyid*)-*pa*) rather than as *?(mi-(skyid-pa))*.

⁵¹ As Avalokitavrata explains in his *Prajñāpradīpikā*, proposition negation *glañ-gvis khas blañs-pa gañ yin-pa de dgag-pa tsam byed-la dños-poi de-kho-naam dños-po med-pai de-kho-na sgrub-par mi-byed-pa* "does not imply the existence or nonexistence of any entity, but simply denies what another has asserted," while term negation *tshig gtšig-gis dños-po sgrub-par byed-pa . . . rañ-gi tshig-gis mi-ston-pa* "implies an entity with a term which is not its own name."

quite important in several areas of Buddhist thought.⁵²

Since Tibetan, unlike Sanskrit, has no nominally bound negation, three primary strategies were adopted to render Sanskrit term negations. One strategy was to ignore the negation altogether and adopt a translation without a negative particle—thus Sanskrit *a-mṛta* “immortal, imperishable → nectar of the gods” Tibetan *bdud-rtsi* “demon juice,” Sanskrit *a-mogha* “unerring, unfailing” Tibetan *don yod-pa* “effective, purposeful.” Another strategy was to nominalize a negated verb stem and use it either as a nominal head (thus Sanskrit *a-vidyā* Tibetan *ma-rig-pa* “ignorance” < *RIG* “know,” Sanskrit *a-hiṇśā* Tibetan *mi-ntshe-ba* “nonviolence” < *TSE* “injure,” Sanskrit *a-nityatā* Tibetan *mi-rtag-pa* “impermanence” < *RTAG* “persist”) or as the modifier of a nominal head (thus Sanskrit *an-āgata* Tibetan *ma-byuñ-ba* “unoriginated” < *BYUÑ* “arise,” Sanskrit *a-sama* Tibetan *mi-mñam-pa* “unequalled” < *MÑAM* “be alike,” Sanskrit *a-bhrānta* Tibetan *ma-nor-ba* “unerring” < *NOR* “be mistaken”).⁵³

A third strategy was to find a nominal equivalent for the affirmative part of the Sanskrit term negation, deny the nominal with an appropriate verb (usually *ma-YIN-MIN* “be not,” but sometimes *MED* “have not,” or even *BRAL* “lack, be bereft”), and nominalize the resulting proposition. The resulting relative construction could then be used either as a headless modifier (thus Sanskrit *a-dharma* Tibetan *tshos-min* “(a teaching) which is not the dharma/non-dharma,” Sanskrit *a-brāhmaṇa* Tibetan *bram-ze ma-yin-pa* “(a person) who is not a brahman/non-brahman,” Sanskrit *a-kṛtajñatā* Tibetan *byas-pa gzo-ba ma-yin-pa* “(something) which is not an acknowledgement of what was done/ingratitude,” Sanskrit *a-madhyamāpratipad* Tibetan *dbu-mai lam ma-yin-*

⁵² For example, it was important to decide whether certain traditional denials about the world—that things “do not arise from themselves” or that things “are empty of duality”—are verbally or nominally bound. Bhāvaviveka, in his *Prajñāpradīpa*, claims that such denials must be understood as proposition negations, for otherwise there would be the unacceptable implication that something like an “unarising thing” actually exists. On the other hand, Ratnākarasānti, in his *Prajñāpāramitopadeśa*, says that the absence of duality—which is the highest truth—constitutes a term negation, and that there is indeed something real called “nonduality.”

⁵³ Sometimes fuller propositions are negated and nominalized, and enter the lexicon in their full form—for example, Sanskrit *a-cintya* Tibetan *bsam-gyis mi-khyab-pa* “unpervaded by thought → inconceivable,” Sanskrit *a-śastrajña* Tibetan *bstan-biśos mi-śes-pa* “ignorant of the commentaries.”

pa “(a teaching) which is not the Middle Path,”), or as a modifier (thus Sanskrit *a-sūnya* Tibetan *stoñ-min* “non-empty,” Sanskrit *anutpanna* Tibetan *skyes-pa ma-yin* “non-born,” Sanskrit *a-kliṣṭa* Tibetan *ñon-moñ-s-tṣan ma-yin-pa* “non-defiled,” Sanskrit *a-sāśvata* Tibetan *rtag med-pa* “non-eternal”).

Note particularly the following idiomatic use of such term negations—Sanskrit *a-sthāna* Tibetan *gnas-min* “(something) which is not a place/WRONg place/impossibility,” Sanskrit *a-kāla* Tibetan *dus-med* “(something) which is not a time/WRONg time,” Sanskrit *a-vastu* Tibetan *don med-pa* “(something) which is not a thing/WORTHLESS thing.” Thus Sa-skya paṇḍita writes, in his *Legs-par bṣad-pa rin-po-tṣhei gter*, *ñes-pa mñon-sum mhoñ-na-yañ, gnas-ma-yin-la smra mi-bya* “Though you plainly see a sin, do not speak of it under inappropriate circumstances,” *gnas-min ha-tṣañ drañ-po-yañ, rañ-gšan gñis-ka brlag-pa yod* “To be very honest under the wrong circumstances destroys both oneself and others,” *gnas ma-yin-pai dul drags-na, thams-tṣad-kyis ni bkol-bar ngyur* “If you are too gentle in the wrong circumstances you will be made a servant by everyone.”

3.2.1.2. An idiom with MED

The classical literature has an idiom with *MED* which is worth pointing out. We have already noted native compounds of the form ADJECTIVE + ADJECTIVE → NOUN, where the adjectives are opposite ends of a continuum, and the resulting noun is a statement of the continuum itself—thus, for example, *ñe-riñ* “near far → distance” or *bzañ-ñan* “good bad → virtue.” When such an adjective pair is the patient of the verb *MED* “have not,” however, the collocation means “make no distinction between ADJECTIVE or ADJECTIVE/have no regard for NOUN”—for example, *ñe-riñ MED* “make no distinction of near or far/be without regard for distance,” *phyug-dbul MED* “make no distinction of rich or poor/have no regard for wealth,” *gtsañ-btsog MED* “make no distinction of clean and dirty/be slovenly, uncouth, rude”; and the same reading is given a similar collocation of *MED* with semantically opposed nouns—for example, *ñin-mtshan MED* “make no distinction of day or night/be without regard for the time of day,” *rgan-byis MED* “make no distinction of old person or youth/have no regard for age,” and even *ño-med lkog-med* “making no distinction of face—that is, the public self—and secrecy/without regard for whether anyone is watching/acting in private as in public.”

Thus Mi-la ras-pa uses the term *grañ-dro* “hot cold” in *grañ-dro med-pai ras-*

kyañ ndi "This single whatever-the-weather piece of cloth," and the term *mgo-mdžug* "head tail" in *bandhe des ñai mgo-mdžug med-pa-la yun riñ-ba-la bltas* "That monk looked me over from head to tail for a long time/That monk looked over every bit of me without distinction for a long time." In the epic of Ge-sar, we find the hero Ge-sar, in the ugly and despised form of Džo-ru, saying *gzugs-la bzañ-ñan med-le dgos, boñ-la riñ-thuñ med-le dgos, rgyu-la phyug-dbul med-le dgos* "As to form—you should pay no heed to beauty; as to size—you should pay no heed to height; as to substance—you should pay no heed to wealth."

3.2.1.3. Universal negation

In English, we often form universal negations by using what we may call negative pronouns, as in *NO ONE went, NOTHING was there*, or negative adverbs, as in *I NEVER saw him*. Tibetan, on the other hand, forms universal negations by using indefinite determiners with negative verbs—thus *su-žig mi-ngro* "No one goes," *gañ yañ mi-šes* "No one knows," *tši mi-šes* "He knows nothing," *yon-tan tši yañ med* "It has no qualities at all," *de nam yañ ma-mihoñ* "I have never seen that." As these examples show, the indefinite determiner in such constructions is very frequently followed by the connective *yañ* "EVEN, ALSO"—*ña-la tši yañ ma-byuñ* "Nothing happened to me," *nam yañ zum-pa med* "He is never wearied." The great historian Bu-ston says, in his biography, *gañ-žig tši-la yañ mi-sems, tši yañ mi-bsam-pa de nkhör-ba-las yoñ-su thar-pa ngýur-ro* "That one who thinks of nothing, intends nothing, will become one completely freed from the round of rebirth"; an archaic mythological text from Central Asia, writing of a Time of Troubles for mankind, says *dgod bro-bai tshig-tšig byas-kyañ sus kyañ myi-bgad* "Though someone told a joke, no one laughed." In fact, we often find the contraction *tšañ* for *tši yañ* in such constructions—for example, *tšañ mi-ndug* "Nothing was there," *tšañ mi-smra-bar gyur* "They became speechless," *bdag-la tšañ dbul-du med* "We have nothing to give."

Exceptions to such general negations are indicated by marking the excepted participant with the source particle *-las*, in this context perhaps best read as "except for, save," as in *khyod-la gus-pa-las lam gžan med* "For you there is no other path save devotion," *ras-yug gtšig-las mi-bdog* "He possesses nothing except a single piece of cloth." Such constructions often translate well into English constructions with *only*—thus *zla-ba lña-las mi-sdod* "I will stay only five months," *brñas nkyer-ba-las mi-yoñ* "You will only come to despise me,"

gsa gt̄ig-las rd̄e-bisun ma-mthoñ "We saw only a snow-leopard, not the Reverend Master," *mi-phan-žiñ gnod-pa-las med* "It is useless, and does only harm." When Mi-la is building towers for his master Mar-pa, he develops a great sore on his back, but he is afraid to show it to Mar-pa, because, he says, *bla-ma-la gzigs phul-ruñ bkyon-pa-las mi-yoñ* "Though I show it to the lama, I will only get a beating"; when Mi-la tries to meditate with another teacher, without Mar-pa's permission, that teacher tells him *bla-mai bkas ma-grol-na yon-tan mi-skye-ba-las os med* "If you have not the leave of your lama, this is worth nothing other than that the qualities do not arise."

Another way to indicate an exception to a general negation is to negate the excepted participant with *ma-YIN-MIN* "is not," nominalize the resulting proposition with *-Pa*, use it as a headless relative, and, often, specify the omitted head with an indefinite determiner—thus, for example, *klu ma-yin-pa ḡzan mi-thub* "Another (person) who is not a serpent-god cannot do it/Only a serpent-god can do it," *sañs-rgyas ma-yin-pa sus kyañ mi-šes* "Any (person) who is not a Buddha does not know it/Only a Buddha knows it," *ñas yud-gt̄ig min-pa mi-bsdad* "I did not wait (a time) which was not a moment/I waited only a moment." When Mi-la first studies black magic, yet finds his powers still insufficient for his contemplated revenge, he thinks *mthui-rtags ma-thon-par yul-du log-ruñ ?a-ma lt̄sebs-te nt̄shi-ba min-pa mi-yoñ* "If I return without showing the signs of magic power, all that will happen is that my mother will commit suicide and die."⁵⁴

3.2.1.4. Double negation

This last-quoted construction is an example of one sort of DOUBLE NEGATION in Tibetan. Double negatives are often a favored rhetorical device in the classical literature. When Mi-la wishes to return to his master Mar-pa after running away, Mar-pa says of this change of heart, *o-t̄ag blos ma-thoñs-pa min, kho rañ blos ma-thoñs-pa yin* "It's not that he's not renouncing us; it's that he's not renouncing himself"; on another occasion Mar-pa encourages Mi-la by telling him *kha-pho med-pai t̄shos med* "I do not have a teaching that is without boast." When such double negatives occur with such terms as *thabs* "way, means" or *mihu* "power, ability," there is an implication of strong

⁵⁴ Note, similarly, *ma-gtogs-pa* "except for" < *GTOGS* "belong, be part, be included" (compare *NDOGS* "bind, fashion, attach")—thus, for example, *ni gt̄ig-la lag-pa ḡñis ma-gtogs med* "A man has only two hands."

necessity: when Mi-la is commanded to send a hailstorm down upon some mountain bandits, he laments *ser-ba mi-gtoñ-bai thabs mi-ndug* "There's no way not to send a hailstorm/I must send a hailstorm"; Mar-pa wonders at the lack of progress Mi-la is making, and thinks *ñai brygud-pa ñdi-la . . . ñams-rtogs-kyi yon-tan myur-du mi-skye-bai mthu med-pa-žig yin* "This lineage of mine is one which cannot but produce quickly the qualities of mystic insight/ This lineage of mine is one which must produce quickly the qualities of mystic insight."

3.2.2. Adverbs

An ADVERB is a nominal phrase with the ADVERB PARTICLE *-tu* which precedes and modifies a verb head—thus, for example, *gsañ-bar RKU* "steal secretly," *mi-ruñ-bar SPYAD* "behave inappropriately," *yun riñ-du SDAD* "wait for a long time," *khyim-du NGRO* "go homeward," *nañ-par SLEB* "arrive in the morning," *phyir LOG* "turn back." This subordinate adverb always limits or qualifies the head in some way: the event designated by the modified head is a proper subset of the event designated by the head alone; the adverb answers the question "What sort of —?" with reference to the head.

The adverb particle is *-tu*. The capitalization indicates that the particle undergoes regular morphophonemic changes according to the final or post-final of the preceding syllable. *-tu* becomes *-du* after preceding final *-ñ*, *-d*, *-n*, *-m*, *-r*, and *-l*; becomes *-tu* after preceding final *-g* and *-b*; and becomes *-su* after preceding final *-s*—thus *dbañ-du*, *tshed-du*, *lan-du*, *rim-du*, *phyir-du*, *rildu*, *lhag-tu*, *rab-tu*, *dus-su*.⁵⁵ A preceding open syllable becomes a closed syllable in *-r*—thus *dgar*, *spyir*, *rgyur*, *bder*, *blor*. In poetry, when an extra syllable is needed for metrical purposes, an open syllable may be followed by *-ru* instead of *-r*—thus *dga-ru* instead of *dgar*, *spyi-ru* instead of *spyir*, and so on.

Among the various ways of answering the question "What sort of —?" with reference to an event, we can conveniently distinguish its TIME, its PLACE, its MANNER, and its EXTENT. Adverbs of time are regularly formed from temporal nouns—thus, for example, *nañ-pa* "morning" *nañ-par* "in the morning," *dgoñs* "evening" *dgoñs-su* "in the evening," *tshes-gñis* "the second day of the month" *tshes-gñis-su* "on the second day of the month." Adverbs of place are regularly

⁵⁵ But note the stereotyped forms *kun-tu* "completely" < **kund-tu* and *pha-rol-tu* "beyond" < **pha-rold-tu*.

formed from location nouns—thus, for example, *rgya-gar* “India” *rgya-gar-du* “to/in India,” *gro-bo luñ* “Red Valley” *gro-bo luñ-du* “to/in Red Valley”; or, indeed, from any nominal which is the site of a verb of location or the target of a verb of motion—thus, for example, *bla-ma dgon-pa tshen-por slebs* “The lama arrived at the great monastery,” *mer me-lha bzugs* “It is in fire that the Fire God dwells.”

Relator nouns are often found as the head nominal of such adverbs. Spatial relators include *kha* “surface,” *khoñs* “middle,” *gan* “proximity,” *goñ* “upper part,” *ngram* “side,” *mtha* “end,” *druñ* “proximity,” *phyogs* “direction,” *bar* “interval,” *rtsa* “vicinity,” *mtshams* “border,” *slad* “hindpart,” *gseb* “midst,” *dkyil* “center,” *nkhor* “circumference,” *sñon* “front,” *rdžes* “rear,” *mdun* “front,” *rgyab* “back,” *steñ* “top,” *og* “bottom,” *nañ* “inside,” *phyi* “outside,” *g.yas* “right,” *g.yon* “left,” *tshu* “this side,” *pha* “that side”; examples of adverbs with such spatial relators would thus include *khañ-pai nañ-du* “into/inside the house,” *yul dei phyogs-su* “in the direction of that country,” *sñin tshen-poi druñ-du* “near the great tree,” *lam-gyi bar-du* “in the middle of the road,” *mi kun-gyi gseb-tu* “in the midst of all the people,” *rgyal-po nkhor-dañ* *btšas-pai sñon-du* “in advance of the king and his retinue,” *sai og-tu* “beneath the earth.”⁵⁶ Note also the benefit relators—*don* “sake, purpose,” *phyir* “sake, purpose,” *tshed* “benefit, gain,” and thus, again, such adverbs as *sem-sñan thams-tšad-kyi don-du* “for the sake of all sentient creatures.”

Adverbs of manner are regularly formed from adjectives, both primary and derived—thus, for example, *mgyogs-pa* “quick” *mgyogs-par* “quickly,” *riñs-pa* “hasty” *riñs-par* “hastily,” *dal-ba* “gentle” *dal-bar* “gently,” *gsañ-ba* “secret”

⁵⁶ Elsewhere we find spatial relators used metaphorically for time—thus *goñ* “upper part → time preceding,” *sñon* “front → time preceding,” *mtha* “end → conclusion,” *bar* “interval → time between,” *mtshams* “border → juncture,” *og* “bottom → time following,” *slad* “hindpart → time following.” There are also three specifically temporal relators—*skabs* “occasion,” *dus* “time,” *tshe* “time.” Adverbs expressing such temporal relations consist almost exclusively of nominalized propositions—for example, *sañs-rgyas-kyis tshos bšad-pai mithar* “After the Buddha had taught the dharma . . .” *bla-mas ogegs ma-btul-bai bar-du* “While the lama had not yet tamed the demon . . .” *rgyal-po dgon-pa-la slebs-pai dus-su* “At the time the king arrived at the monastery . . .”—and will be dealt with in the section on nominalization. We can note here, however, that the determiner *de* “THAT” is frequently used as the specifier of such a nominalized proposition when such a proposition can be understood from the context and has thus been omitted under the Telegram Principle—thus, frequently, *dei dus-su* “At that time, . . .” *dei rdžes-su* “After that, . . .” *dei mtshams-su* “Meanwhile, . . .” *dei mithar* “Next, . . .” *dei sñon-du* “Before that, . . .”

gsañ-bar "secretly," *ruñ-ba* "appropriate" *ruñ-bar* "appropriately," *nan-tan* "earnest" *nan-tan-du* "earnestly," *bag-yod-pa* "chaste" *bag-yod-par* "chastely," *gsal-po* "clear" *gsal-por* "clearly," and so on.⁵⁷ Adverbs of manner can also be formed from other nominals by means of the simile-creating *-bzin* "like, as," and *-lta~-lta-bu~-lta-ba* "like, as"—for example, *tshos* "dharma" *tshos-bzin-du* "in accord with the dharma," *yid* "mind" *yid-bzin-du* "to heart's content," *luñ-STAN* "predict" *luñ-bstan-pa-ltar* "as predicted," *phyag BYA* "make a salute, pay reverence" *phyag byed-pa-ltar* "as if saluting." Adverbs of extent can be similarly formed from nominals by means of the totalizers *sñed* "no less than," *tsam* "as much as," *srid* "as long as." Note, for example, in the Tibetan translation of the Chinese *Mdzañs-blun žes bya-bai mdo*, *ba-spü ldañs-pa tsam-du skrags* "He was so frightened his hair stood up," *dum-bur btšad-pa tsam-du sdug-bsñal-gyis gduñs* "He suffered as much torment as being cut to pieces," *bus ma mthoñ-ba tsam-du dga* "He was as happy as a child seeing its mother."

Finally, there is a special class of adverbs we will here call INTENSIFIERS. The most common of these are *śin-tu* "very" and *ha-tshañ* "very," but they include as well such adverbs as *lhag-par* "especially," *rab-tu* "particularly," *te-bor* "really," *yoñs-su* "completely," *mtshog-tu* "extremely," *kun-tu* "entirely," *ñes-par* "certainly," *legs-par* "well." As we have seen, a number of such intensifiers were used to translate Sanskrit verb prefixes—for example, *mam-par* ŠES "particularly know → perceive (*vi-jñā*)," *mñon-par* ŠES "manifestly know → perceive clairvoyantly (*abhi-jñā*)," *so-sor* KEAG "individually examine → know precisely (*praty-ava-jñikṣ*)," *rab-tu* GNAS "highly place → consecrate (*prati-jñihā*)."

There is only one event in each proposition, so, in each proposition, there is, of course, only one possible head for any adverb. It is thus possible to have

⁵⁷ The derivational affixes *-Pa* and *-PHo* can also be dropped in such adverb constructions—thus *myur-ba* "quick" *myur-du* "quickly," *ruñ-ba* "appropriate" *ruñ-bar~ruñ-du* "appropriately," *rtag-pa* "continual" *rtag-par~nag-tu* "continually," *mñon-pa* "evident" *mñon-par~mñon-du* "evidently." In a few cases, adverbs of manner appear to derive from nouns rather than adjectives—for example, *rgyun* "stream" *rgyun-du* "continuously," *rim-pa* "series" *rim-par* "successively," *dños* "reality" *dños-su* "really." The idea of what constitutes the manner of an event is not necessarily congruent in Tibetan and English; note, for example, from an archaic Central Asian mythological text, *srin-rdže nag-pa . . . ũa rlon-du zas, khrag rlon-du zas, pags rlon-du gyond* "The black fiend lord . . . ate flesh raw, drank blood raw, dressed in skins raw."

several adverbs modifying the same head—for example, *gro-bo luñ-du nañ-par slebs* “I arrived at Red Valley in the morning,” *bla-ma dgon-par rtag-tu bžugs* “The lama always stays in the monastery,” *sems-tšan-kyi don-du brtson-par sgrubs* “Meditate diligently for the sake of sentient creatures.” Thus too, while an adnominal must immediately precede the head it modifies, an adverb is MOBILE; and adverbs—especially adverbs of time and place—can often be found appropriately in the setting slot of a proposition, while adverbs of manner—and especially intensifiers—tend more often to be found immediately to the left of the verb head.



Figure 9. Charm to lock the mouth of slander

1. SYNTACTIC STRUCTURE

In classical Tibetan, a PROPOSITION consists of an EVENT preceded by the various PARTICIPANTS who take part in that event. The event is what happened; the participants are those to whom the event happened, who made it happen, where it happened, when it happened, with what or with whom it happened, and so on. The part which the participant plays in the event can be called its participant ROLE.

The event is expressed by a VERB PHRASE, which carries on the verb what Tibetologists have traditionally called TENSE. For example, the transitive verb *TUB* "chop" has four tense stems—the present stem *nthub* "chops," the past stem *buubs* "chopped," the future stem *btub* "will chop," and the imperative stem *thubs* "chop!" while the intransitive verb *KHRO* "be angry" has two—*skhro* "is angry" and *khros* "was angry."

Each of the participants is expressed by a NOMINAL PHRASE; the participant role which it plays is indicated by a following ROLE PARTICLE. For example, in the proposition *nags-la rgyal-po-s s̥in-Ø btubs* "The king chopped wood in the forest," the participant *nags* "forest" is signaled as the LOCUS of the event by the role particle *-la*, the participant *rgyal-po* "king" is signaled as the AGENCY of the event by the role particle *-s*, and the participant *s̥in* "wood" is signaled as the PATIENT of the event by the role particle *-Ø*. There are five primary participant roles in the classical language—PATIENT, AGENCY, LOCUS, SOURCE, and ACCOMPANIMENT.

1.1. EVENTS

We can syntactically distinguish three types of event in Tibetan according to the participant roles which must accompany them in a proposition, whether these participants are expressed explicitly or are understood from the context. Every event requires a PATIENT: that is, every event must HAPPEN TO some-

body or something.¹ An INTRANSITIVE VERB expresses an event that is not specified as taking place through any agency external to this patient: such an event—*bla-ma-Ø skyel* “The lama is weary,” *bla-ma-Ø nguel* “The lama falls down,” *bla-ma-Ø nbros* “The lama flees”—must be accompanied by its PATIENT participant but requires no AGENCY participant.

A TRANSITIVE VERB, on the other hand, indicates that the event occurs through some agency other than its patient: such an event—*bla-ma-s bgegs-Ø btul* “The lama tamed the demon,” *dug-gis rgyal-po-Ø bsad* “Poison killed the king”—must be accompanied not only by its PATIENT participant but also by the AGENCY participant whereby the event occurs.

For example, in *tshu-Ø nkhol* “The water boils” the event expressed by the intransitive verb *KHOL* “be boiling” can simply HAPPEN to the patient without any external agency; but in *bla-ma-s tshu-Ø skol* “The lama boiled the water” the event expressed by the transitive verb *SKOL* “make ‘boiling’” not only HAPPENS to the patient but also must be CARRIED OUT or IMPLEMENTED by some agency or instrumentality.

Finally, the EQUATIVE VERB *YIN*—and later *RED*—requires TWO patient participants: it expresses the equation or identification of two terms, both of which undergo that identification, as in *bla-ma-Ø sñags-pa-Ø yin* “The lama is a magician.”²

¹ In Tibetan there are therefore no dummy subjects like the *it* in *It is raining* or *It is foggy*. Instead we find such expressions as *tshar nbab* “Rain is falling” and *na-bun nhibs* “Fog has gathered.”

² The verb *YIN* “be” is the only equative verb in Old Tibetan. This verb should not be confused with the intransitive verb *YOD* “be” which asserts the spatiotemporal existence of a single patient participant rather than the equation of two patient participants—thus *bla-ma-Ø sñags-pa-Ø yin* “The lama is (identified as) a magician” but *bla-ma-Ø ri-la yod* “The lama is (spatiotemporally) on the hill.” Compare, for example, New Chinese *shih* “be (equated)” and *yu* “be (spatiotemporally)”; the problem, of course, is that English has collapsed—or expresses homophonously—two different concepts.

In some later texts, beginning probably in the fourteenth century, such as the epic of Ge-sar, the *Pad-ma thañ-yig*, and the biography of Mi-la ras-pa, we find the Middle Tibetan equative verb *RED*—thus, for example, in the epic, *gla-ba mi-bden sgyu-ma red* “The deer is not real, it is an illusion,” and, in the biography of Mi-la, *khyed phyugs-rdzi ma-red rdo-rdže sens-dpar snañ* “You are not a herdsman, but appear as Vajrasattva.” The frequency of *RED* varies in

INTRANSITIVE, TRANSITIVE, and EQUATIVE verbs are thus defined not only SEMANTICALLY by the sort of event they express—for example, “be boiling” as opposed to “make boiling”—but also SYNTACTICALLY by the participants which must accompany them.³ This threefold categorization is exhaustive: every Tibetan verb belongs to one and only one of these three categories, whatever other participants the particular verb may require.⁴

the texts: the verb is quite common in the epic, relatively rare in the Mi-la, and continues to be absent in learned treatises; indeed, the occurrence of *RED* in a classical text can be used as an index of colloquial register.

The verb *RED* is unevenly distributed in New Tibetan. It is not found in Ladakh, where *yin* continues to be the only equative verb. In Lhasa City, *re* < Middle Tibetan *RED* has become the primary equative verb, with *yiv* < Old Tibetan *YIN* almost entirely restricted to certain constructions implying reportage of personal experience—thus *ti thep re* “This is a book” but not *?ti thep yiv*, but both *khö thep lpa re* “He read the book” and *ñe thep lpa yin* “I read the book.”

³ As we have discussed, transitive and intransitive verbs differ INFLECTIONALLY in Tibetan as well: transitive verbs have four stems, with the past stem marked with a *b*-prefix; intransitive verbs have two tense stems, with the past stem marked with a *θ*-prefix. Compare, for example, *SGRAG* “proclaim,” with the four stems *srog/bsgrags/bsgrag/sgros*, and *GRAG* “resound” with the two stems *ngrag/grags*. Also, some pairs of transitive and intransitive verbs with homophonous roots differ inflectionally in the present stem, with the transitive verb showing an additional affix *-D*. Compare *rgyu* < *N-RGYU* “moves” and *rgyud* < *N-RGYU-D* “transmits,” *ngas* < *N-GAS* “becomes split” and *nges* < *N-GAS-D* “makes split.” Additionally, as we have seen, there are also pairs of transitive and intransitive verbs, clearly related phonologically and semantically, that differ DERIVATIONALLY, either by a transitivizing prefix *s-* (for example, *LAÑ* “rise” *SLAÑ* “raise,” *GRAG* “resound” *SGRAG* “proclaim”) or by initial voicing (for example, *THON* “emerge” *DON* “eject,” *DOR* “be scattered” *TOR* “scatter”).

⁴ Some verbs can be described as requiring—in some sense—additional participants. For example, the intransitive verb *MÑA* “belong” requires not only its patient participant but a LOCUS of possession as well—thus *rgyal-po-la sras-θ mña* “The king has a son,” but not—at least not out of a context providing the missing locus—just *?sras-θ mña*. Similarly, the transitive verb *DŽUG* “put” requires a locus participant; we might find *rgyal-po-s rdo-θ tshu-la btšug* “The king put the stone in the water,” but not—again, at least not without a context in which the locus is understood—just *?rgyal-po-s rdo-θ btšug*. Other verbs require an ACCOMPANIMENT—for example, the intransitive verb *NDRA* “be similar,” as in *bla-ma-θ sañs-rgyas-dañ ndra* “The lama is like a Buddha,” but not *?bla-ma-θ ndra*, or the transitive verb *PHRAL* “make separate, sever,” as in *rgyal-po-s dgra-θ srog-dañ phral* “The king deprived the enemy of his life,” but not *?rgyal-po-s dgra-θ phral*. And some verbs seem to require an

1.1.1. Equations

As we have noted, the equative verb *YIN*—and later *RED*—expresses the equation or identification of two patient participants. Indeed, the presence of two patient participants—for example, *bla-ma-Ø* “lama” and *mkhan-po-Ø* “abbot” in *bla-ma-Ø mkhan-po-Ø yin* “The lama is an abbot”—uniquely identifies the verb as equative.⁵ Even more, the verb *YIN* is unique in that it

additional INSTRUMENT participant. The verb *SKRAG* “be afraid” gives every evidence of being intransitive, yet we find *rgyal-po-Ø sbrul-gis skrag* “The king is frightened of the snake,” but not—outside an appropriate context—just *?rgyal-po-Ø skrag*. Similarly, we find the transitive verb *GĀN* “fill, make full” in such constructions as *rgyal-po-s bum-pa-Ø tshu-s ngeñs* “The king fills the pot with water,” but not *?rgyal-po-s bum-pa-Ø ngeñs*. Such required participants frequently fill the CORE participant slot in the proposition, immediately preceding the verb.

It is clear that propositions like *?bla-ma ndra* “?The lama is similar,” and *?rgyal-po-s rdo-Ø btshug* “?The king put the rock,” are puzzling; it is not clear to me whether our puzzlement is syntactic, or semantic, or pragmatic. We alleviate our puzzlement by searching the context for the missing participant; we are perhaps less puzzled by, say, *?rgyal-po-s bum-pa-Ø ngeñs* “?The king fills the pot” because the missing participant is more easily inferred from the context or, indeed, from our general knowledge of the world, and of the sorts of things people usually fill pots with.

In addition, we can note here briefly that certain verbs appear to require that participants in certain roles have certain SEMANTIC properties. It is a commonplace to observe, for example, that the patient of a verb such as *SAD* “kill” must be animate, or at least will be read as animate in the context of the verb. Perhaps more interestingly, we can observe that the verb *RNE* “get, find, obtain” can occur with any sort of patient, while the patient of the otherwise apparently synonymous verb *THOB* “get, find, obtain” must be abstract—thus both *tshos rñed* and *tshos thob* “He gains the dharma” but *gri rñed* “He finds a knife” and not *?gri thob*. Thus too an expression such as *sañs-rgyas thob* will ordinarily be read as “He gains Buddhahood” and not as “He finds the Buddha,” and *rgyal-po thob* as “He becomes the king” and not as “He finds the king.”

⁵ The two patient participants which thus undergo identification can, of course, consist of nominal phrases of any length and complexity. In a text, the leftmost of these two patient participants may be the THEME: it could constitute old information recoverable from the text. Under the Telegram Principle, such old information can be omitted. For example, in such propositions as *bla-ma yin* “(The person we are discussing) is a lama” or *bla-ma rgan-poi gser-gyi phreñ-ba yin* “(That object we are talking about) is the old lama’s golden rosary,” the reader processes the single patient participant as the RHÈME, and assumes that the missing patient participant is some prior element in the text.

is often omitted from the proposition entirely: since an equative verb is uniquely defined by the presence of two patient participants, the verb itself becomes redundant in any proposition containing two patients. Under the Telegram Principle, such a redundant constituent can simply be left out.

The equative verb is often omitted in verbal complements, metrical verse, proverbs, and parallel poetry. Proverbs with the verb *YIN* omitted at the end of the proposition include such examples as *phag-pas bltas-na phag-tshañ gžal-yas-khañ* "If a pig looks at it, a pigsty (is) a divine mansion," and *pha-spun dgra-nu soñ-yañ nus-pa gser* "Though brothers turn enemies, yet family (is) gold." Such proverbs frequently make use of a proportional form A:B::C:D, with the verb *YIN* omitted in two parallel equative constructions. Thus we find *pha tsan-dan-gyi sdoñ-po, bu tshu-šin-gi om-bu* "The father—a sandalwood tree; the son—a hollow reed," *zas-ñan lus-kyi dgra, mi-ñan yul-gyi dgra* "Bad food—enemy of the body; bad men—enemy of the land." The scholar Sa-skya pañjita would sometimes use such equative proverb forms in his didactic verse; we find, for example, *smra-mañ ñes-pa ndzin-pai rgyu, mi-smra ñes-pa spoñ-bai gži* "Much talk—why you get into trouble; no talk—how you stay out of trouble."

The equative verb can also be omitted before the propositional conjunctions *-STE* "AND," *-AM* "OR," and *-YAÑ* "BUT," leaving a proposition with two patient

The fact that the thematic patient participant can be omitted means that some equative constructions are ambiguous. For example, the proposition *bla-ma mkhan-po yin* can be read either as *(bla-ma-Ø) (mkhan-po-Ø) yin* "The lama is an abbot" or as *((bla-ma mkhan-po)-Ø) yin* "(The person under discussion) is a lama-who-is-an-abbot." Similarly, the proposition *bla-ma rgan-po yin* can be read either as *(bla-ma-Ø) (rgan-po-Ø) yin* "The lama is old/an old one" or as *((bla-ma rgan-po)-Ø) yin* "(The one we're talking about) is an old lama." In each case, the former reading assumes that both patient participants are present, and the latter reading assumes that a leftward patient has been telegraphically omitted.

The reason for the ambiguity, of course, is the fact that the patient role particle *-Ø* is invisible, and thus cannot unambiguously mark the end of a nominal phrase. Now such ambiguity is not often a serious obstacle in the processing of a text. But, where an author does feel a need to disambiguate such a proposition, a specifier—often the determiner *de* "THAT"—can be used, not for its semantic content, but just to mark the end of a leftward patient participant. Thus *bla-ma de rgan-po yin* can be read only as *(bla-ma de-Ø) (rgan-po-Ø) yin* "The lama is old/an old one," since the determiner unambiguously signals the close of the first nominal phrase in the equation.

participants, a conjunction, and no verb.⁶ The following three didactic verses, from the *Legs-par bśad-pa rin-po-tshei gter* by Sa-skya pañjita, will illustrate the telegraphic omission of *YIN* before each of these three conjunctions:

*mahas-pa gžan-la bśad-paAM
yañ-na ži-bai nags-su sgrub
nor-bu spyi-gsug rgyan-byed-paAM
yañ-na rgya-mtshoi gliñ-na gnas*

A wise man either (is) a teacher of others
or else meditates in a peaceful forest;
a gem either (is) one that adorns a crown
or else stays on its island in the sea.

*gnod-pa byed-pa tšhuñ-ñu-YAÑ
myur-du bsal-ba ndun-par bya
yur-ba tšhuñ-ñui rdžes žugs-nas
od-pa tšhen-po ma-mthoñ-ñam*

Though the harm one has done (is) small
one should wish to remedy it quickly;
have you not seen a great flood
flowing through a small channel?

*ha-tšañ byams-pa gñen-laañ min
šin-tu gnod-tšhen dgra-laañ min
gñen-la re-ba nkhon-gži-STE
gnod-lan kun-gyis sgrub-par sla*

Too much friendliness is not even for kinsmen;
very great harm is not even for enemies;
relying on kinsmen (is) the cause of feuds
and anyone can easily pay back harm.

⁶ But the equative verb cannot be omitted before the propositional conjunction *-TŠIñ* "AND." I do not know why this should be so; but this nondeletability of *YIN* before *-TŠIñ* is the primary syntactic distinction between the conjunctions *-TŠIñ* "AND" and *-STE* "AND"—a distinction that affects the way the two conjunctions are used in making identifications. The constraint on the omission of *YIN* before *-TŠIñ* is also what allows occurrence before *-TŠIñ* to be diagnostic of the lexical category of verbs.

In these verses we can note the parallel constructions *mkhas-pa-Ø gžan-la bšad-pa-Ø* (*YIN*)-*Am* “A wise man (is) a teacher to others OR . . .,” *gnod-pa byed-pa-Ø tšuñ-ñu-Ø* (*YIN*)-*Yañ* “The harm one does (is) small BUT . . .,” and *gñen-la re-ba-Ø nkhon-gži-Ø* (*YIN*)-*Ste* “Relying on kinsmen (is) the cause of feuds, AND . . .”⁷

1.1.2. Transitive and intransitive verbs

In a proposition with a transitive verb, either the agency or the patient can be the theme, and so, under the Telegram Principle, either can be omitted—thus *rgyal-po-s dgra-Ø bsad* “The king slew the enemy,” *rgyal-po-s bsad* “The king slew (someone),” *dgra-Ø bsad* “(Someone) slew the enemy.”⁸ Since much narrative concerns the activity of some particular actor through whom the events in the story take place, the agency is often the theme of the proposition; hence we not infrequently find a proposition with a transitive verb and a patient participant, looking very much like a proposition with an intransitive verb and a patient participant—for example, *nor spel* “(Someone) increases the wealth” *nor nphel* “The wealth increases,” *tšu skol* “(Someone) boils the water” *tšu nhol* “The water is boiling,” *sgo nyed* “(Someone) opens the door” *sgo nbye* “The door opens.”

Many such pairs of verbs exhibit an interesting logical relationship: the transitive verb ENTAILS the intransitive verb, but the intransitive verb does not entail the transitive verb. Thus *nor spel* “(Someone) increases the wealth” is true only if *nor nphel* “The wealth increases” is true, and *tšu skol* “(Someone) is boiling the water” similarly entails *tšu nhol* “The water is boiling.”

⁷ Sometimes the statement particle *-o* will mark the close of a proposition from which the equative verb has been omitted—for example, *gzugs stoñ-pao* “Form (is) empty,” *bla-ma de rgan-poo* “The lama (is) old,” *mi-la bla-mao* “Mi-la (is) a lama.” And if Mi-la has already been the subject of prior discussion, he may be telegraphically omitted as well, leaving the minimal equative construction *bla-mao* “(The person we are talking about) (is) a lama.”

⁸ English has a device for expressing a transitive action while suppressing the specification of its agency—a passive construction without a *by* phrase. It thus makes some sense to translate, say, *dgra-Ø bsad* as “The enemy was slain,” as opposed to “(Someone) slew the enemy”; but convenience of translation does not make the verb anything other than transitive in Tibetan. Of course, in the context of a discourse, the most likely translation of, say, *dgra-Ø bsad* would be “HE slew the enemy,” since the English pronoun has the same anaphoric function as the absence of a participant does in Tibetan.

Again, *sgo nbyed* “(Someone) opens the door” entails *sgo nbye* “The door opens,” and *bya spur* “(Someone) scares away the birds” entails *bya nphur* “The birds fly away.” On the other hand, *sgo nbye* “The door opens” does not entail *sgo nbyed* “(Someone) opens the door”: the door might be opening by itself.

*A thought is a proposition with a sense.
The totality of propositions is language. . . .
Language disguises thought.*

—L. Wittgenstein,
Tractatus Logico-Philosophicus

Such pairs of verbs as *SPEL* “make increased” *PHEL* “become increased,” *SKOL* “make boiling” *KHOL* “become boiling,” *PYE* “make open” *BYE* “become open,” *SPUR* “make fly away” *PHUR* “fly away” are thus quite closely related—by logical entailment, by semantic content, and by phonetic shape. But we must bear in mind that propositions containing different members of such pairs assert quite different sorts of events. The transitive verb in effect claims that the event is the result of some outside agency acting upon the patient; the intransitive verb makes no such claim.

1.1.3. Ergativity

Intransitive verbs occur with a patient; transitive verbs occur with both a patient and an agency. Many languages—including Latin and Sanskrit and Chinese—syntactically identify the intransitive patient and the transitive agency. In English and Chinese, they are both put BEFORE THE VERB (as in English *THE TEACHER grieves* and *THE TEACHER sees the pupil*), and the transitive patient is put AFTER THE VERB (as in *The pupil sees THE TEACHER*). In Sanskrit and Latin, they are both put in the NOMINATIVE CASE (as in Sanskrit *ACĀRYAH ūocati* “THE TEACHER grieves” and *ACĀRYAH ūiṣyam paśyati* “THE TEACHER sees the pupil”), and the transitive patient is put in the ACCUSATIVE CASE (as in Sanskrit *ACĀRYAM ūiṣyāḥ paśyati* “The pupil sees THE TEACHER”).

Other languages—including Basque and Eskimo and Tibetan—syntactically identify the intransitive and transitive patients. In Tibetan they are both given the PATIENT ROLE PARTICLE -Ø (as in *SLOB-DPON-Ø ngyod* “THE TEACHER grieves” and *slob-ma-s SLOB-DPON-Ø mthoñ* “The pupil sees THE TEACHER”), and the transitive agency is given the AGENCY ROLE PARTICLE -GYIS (as in *SLOB-DPON-GYIS slob-ma-Ø mthoñ* “THE TEACHER sees the pupil”). In some descriptions of these languages the patient is said to be in the ABSOLUTIVE CASE and the agency in the ERGATIVE CASE (from Greek *érgates* “worker”).

In an ACCUSATIVE LANGUAGE such as Sanskrit or English, the patient of a transitive verb is singled out as special and given a distinctive accusative form or position, while the other participants share a nominative—or unmarked—form or position. In an ERGATIVE LANGUAGE such as Basque or Tibetan, the agency of a transitive verb is singled out as special and given a distinctive ergative form or position, while the patient participants share an absolute—or unmarked—form or position.

We can observe that an ergative system such as Tibetan is patterned very much like the PASSIVE of an accusative system such as English. In the English passive, for example, the agency of a transitive verb is given the distinctive marker *by* (compare English *The pupil is seen BY THE TEACHER* with Tibetan *SLOB-DPON-GYIS slob-ma-Ø mthoñ*), while the patient participants share the unmarked position before the verb (compare English *THE TEACHER grieves* and *THE TEACHER is seen by the pupil* with Tibetan *SLOB-DPON-Ø ngyod* and *slob-ma-s SLOB-DPON-Ø mthoñ*). This is the reason for the assertion, common in older textbooks, that “all Tibetan constructions are impersonal” or that “all Tibetan verbs are passive.” In fact, Tibetan apparently lacks any syntactic structure corresponding to the passive of an accusative system;⁹ Tibetan transitive constructions can, of course, be TRANSLATED by an English passive (for example, *rgyal-po-s dgra-Ø bsad* “The king slew the enemy” or “The enemy was slain by the king”), but this, again, is a peculiarity of English and not of Tibetan.

⁹ In a number of ergative languages, we find constructions that have come to be called ANTIPISSIVES, with the transitive agency in the unmarked absolute case, the transitive patient in an oblique or DATIVE case, and the verb in a distinctive “antipassive” form. I have not found a convincing example of such an antipassive construction in Tibetan.

1.1.4. "Tense"

1.1.4.1. *The tense system*

Every Tibetan verb occurs in one of four tenses. The tense of the verb is signaled by various more or less regular changes in its phonetic shape—for example, *nθub* “chops,” *btubs* “chopped,” *btub* “will chop,” *thubs* “chop!” A verb may have a maximum of four such distinct shapes—for example, from the root *TU* “gather” we find *nθu/btus/btu/thus*, and from the root *TSHAD* “cut” we find *gtšod/btšad/gtšad/tšod*. These four forms of the verb have been denominated, by the native grammarians, *da-lta-ba* “present,” *ndas-pa* “past,” *ma-oñs-pa* “future,” and *skul-ishig* “imperative.” It is evident that a simple linear concept of tense—stretching from the past into the future—does not adequately account for the meanings of these four verb forms.

Note too that the present and past form a distinct entity as the two tenses shown by intransitive verbs, and the future and imperative as the two tenses peculiar to transitive verbs. Similarly, the present and future form a distinct entity as taking the *mi-* form of the negative particle, and the past and imperative as taking the *ma-* form; the past and imperative, too, are both distinctively marked with the *s-* suffix, while the present and future are not.

It thus seems plausible that these four tenses are in fact the product of two intersecting semantic specifications—an ASPECT specification of completeness and a MOOD specification of potentiality. An event specified as COMPLETE is finished, terminated, accomplished at the time of speaking; the event has a terminal boundary. An event specified as POTENTIAL is one that is not factual but is in some way expected to be factual. In Tibetan, then, the present expresses an event not specified as being either complete or anticipated, as in *rgyal-pos nor sgrub* “The king gets/is getting wealth”; the past expresses an event specified as completed but not as anticipated, as in *rgyal-pos nor bsgrubs* “The king got/has gotten wealth”; the future expresses an event specified as anticipated but not as yet completed, as in *rgyal-pos nor bsgrub* “The king will get wealth”; and the imperative expresses an event specified as expected to be completed, as in *rgyal-pos nor sgrubs* “Let/may the king get wealth!”¹⁰

¹⁰ Similar interactions of mood and aspect are found in other languages. For example, in Tagalog, as in Tibetan, the verb form indicating potentiality but not completion is used for ordinary future events, and the verb form indicating both potentiality and completion is used for imperatives.

The tenses we have characterized as indicating completion—the transitive and intransitive past stem and the transitive imperative stem—are all signaled by the *-s* suffix; the *-s* suffix thus appears to be the inflectional marker for aspect. We may note, too, an interesting relationship between transitivity and potentiality: the fact that only transitive verbs can normally be specified as potential suggests that the predictability of an event in Tibetan is connected with its occurring through some outside agency—paradigmatically an animate actor—rather than simply happening to the patient that undergoes it.

1.1.4.2. Periphrastic forms

In the earliest texts, such as the archaic manuscripts discovered in Central Asia, verbal tense was expressed primarily through such inflectional modifications of the verb stem alone. In one such mythological text, for example, the horse Khug-ron rmañ-dar swears revenge against Wild Yellow Yak, who had killed his older brother, using the future tense of the verbs *TŠAD* “cut” and *LAN* “repay,” saying, *sdañ-gi sñiñ gšado, nbroñ-g.yag skar-bai sñiñ gtšado, byams-kyi lan glan-no, phu yid-kyi gdañ-pyam-gi lan glan-no* “I will cut out the wrathful heart, I will cut out the heart of Wild Yellow Yak; I will repay the kindness, I will repay older brother Yid-kyi gdañ-pyam.” And, after the yak is slain, he exults, in the past tense, *stañ-gi sñiñ btšad, byams-gi ni lan blan* “I have cut out the wrathful heart; his kindness, yes, have I repaid.”

Periphrastic constructions, in which the job of expressing tense is spread out over more than one verb stem in the same proposition, come from three sources. First, we find, even in the archaic Central Tibetan manuscripts, CONJUNCTIONS with the coordinating conjunction *-TSiñ* > *-kyin* > *-kyi* > *-gi* and, to a lesser extent, *-STE* “AND,” as in *sñi-la rma byeu-žig thogs-šiñ NDUG* “A little peacock was there tangled in the snare.” Second, we find NOMINALIZATIONS with *-Pa*, as in *khyed-rañ ni ña-la dad-nas oñs-PA YIN* “You have come to me in faith.” Third, we find COMPLEMENT CONSTRUCTIONS, again even in the earliest archaic texts—for example, *rgya mgo nag-po de-la phyag-ntshal-žiñ des bkol-BAR OÑ-ño* “It came about that the Chinese masses paid homage to him, and were by him enslaved”; in the translation of Sanskrit texts, such complement constructions began to be used more frequently, in part, one supposes, to express the Sanskrit passive—for example, Sanskrit *ājānāti* Tibetan *šes-PAR BYED* “He knows,” Sanskrit *sādhyate* Tibetan *bsgrub-PAR BYA* “It is proven”—but also in such constructions as *me sreg-PAR BYED* “Fire

burns" and *me sreg-PAR NGYUR* "Fire will burn." By the time of New Tibetan, we find—for example, in the dialect of Lhasa City—that several of these various periphrastic forms, from different syntactic sources, have formed a coherent inflectional paradigm. I am not at all sure that such a development can be discerned in the classical texts; and these periphrastic constructions will be dealt with separately in the appropriate sections of this text.

1.2. PARTICIPANTS

A proposition in Tibetan consists of an event and its participants; the event is the last constituent of the proposition, with its participants preceding it in various positions. A participant in turn is a nominal phrase marked with a following bound role particle: the role particle signals the particular role or function of the participant in the stated event. For example, in the proposition *nags-la rgyal-pos dgra-Ø bsad* "The king slew the enemy in the forest," the participant *nags* "forest" is signaled as the LOCUS of the event by the role particle *-la*, the participant *rgyal-po* "king" is signaled as the AGENCY of the event by the role particle *-s*, and the participant *dgra* "enemy" is signaled as the PATIENT of the event by the role particle *-Ø*. Similarly, in the proposition *rgyal-po bla-ma-dañ dgon-pa-nas byon* "The king arrived from the monastery with the lama," the participant *rgyal-po* "king" is signaled as the PATIENT of the event by the role particle *-Ø*, the participant *dgon-pa* "monastery" is signaled as the SOURCE of the event by the role particle *-nas*, and the participant *bla-ma* is signaled as the ACCOMPANIMENT of the event by the role particle *-dañ*.

There are five basic roles in the classical language—PATIENT, AGENCY, LOCUS, SOURCE, and ACCCOMPANIMENT. These roles—and the different meanings that they carry—will be discussed in the following sections.

1.2.1. The patient role

The PATIENT of an event is the participant that suffers, endures, or undergoes the particular state, process, or action; the patient is the one the event HAPPENS TO. With verbs of motion the patient is that which undergoes the motion; with verbs of location it is that whose location is asserted; with verbs of emotion it is the experiencer of the emotion. Whatever other participants an event may have, it must always have a patient: in classical Tibetan every

proposition must have one patient participant either stated or understood; every event has to HAPPEN TO somebody or something.¹¹ And, with one exception, any proposition can have only one patient participant; the exception is a proposition containing an equative verb, which uniquely occurs with two patient participants.

The role particle that signals the patient of the event is ZERO, which we write herein, when occasion demands, as -Ø. This means that the patient role is signaled by the ABSENCE of any overt role particle: the proposition *bla-ma ñal* "The lama sleeps" is conveniently conceptualized as *bla-ma-Ø ñal*. This invisible particle is just as functional as any other: the presence of -Ø signals the patient of the event just as surely as, say, the presence of -*la* signals its spatial or temporal locus. The zero particle sometimes causes problems in reading only because it is so hard to see.

1.2.2. The agency role

The patient of an event, we have said, is the participant that suffers, endures, or undergoes the particular state, process, or action: in *bla-ma-Ø gyel* "The lama fell down" the participant *bla-ma* "lama" is the patient of the process of falling; in *bgegs-kyis bla-ma-Ø sgyel* "The demon tripped the lama" the participant *bla-ma* "lama" is the patient of the action of tripping. The AGENCY of an event is the means or instrumentality whereby the event occurs: in *dgra-s ryal-po-Ø bsad* "The enemy killed the king" or *ser-ba-s ryal-po-Ø bsad* "A hailstorm killed the king" the participants *dgra* "enemy" and *ser-ba* "hailstorm," respectively, are the agencies of the action of killing.

The role particle that signals the agency of an event is -*KYIS*, whose initial undergoes morphophonemic changes according to the final or postfinal of the preceding syllable: -*KYIS* becomes -*gis* after preceding final -*g* and -*ñ*; becomes

¹¹ When the patient participant is not being acted upon by some agency or instrumentality external to it, it can conveniently be translated as the English subject—thus *rgyal-po-Ø ñal* "The king sleeps." When it is being acted upon by some external agency or instrumentality, it can be translated into English either as the object in an active construction or the subject in a passive one—thus *dgra-s ryal-po-Ø bsad* "The enemy slew the king" or "The king was slain by the enemy." Interestingly, it seems that classical Tibetan can be thoroughly described without resorting to the notion of grammatical subject or object at all; it is, in that sense, what some linguists have termed a ROLE-DOMINATED language.

-kyis after preceding final *-d*, *-b*, and *-s*; and becomes *-gyis* after preceding final *-n*, *-m*, *-r*, and *-l*—thus, for example, *bdag-gis*, *rañ-gis*, *bod-kyis*, *rab-kyis*, *gos-kyis*, *bon-gyis*, *lam-gyis*, *phur-gyis*, *bal-gyis*. A preceding open syllable becomes a closed syllable in *-s*—thus, for example, *dgas*, *spyis*, *rgyus*, *bdes*, *blos*—although in archaic manuscripts and ancient monumental inscriptions we encounter such forms as *dgais* and *bdeis*. In verse, when an extra syllable is needed for metrical purposes, we find *-yis* following an open syllable—for example, *dga-yis* instead of *dgas*.

The agency whereby an event takes place is quite often animate, although the initiator of an event can also be a natural force, an institution, or a magic spell: where we read an agency as being in some sense RESPONSIBLE for the event we can speak of an AGENT. On the other hand, the agency may be some inanimate object wielded by an agent, or in some other way not subject to its own inclination: where we read an agency as being in some sense NOT RESPONSIBLE for the event we can speak of an INSTRUMENT.

Thus, in a proposition such as *rgyal-pos tho-bas rdo btšag* “The king broke the rock with a hammer,” there is little question that *rgyal-po* “king” is the agent and *tho-ba* “hammer” is the instrument, despite the fact that they are marked with exactly the same role particle—except, perhaps, in the unlikely context of a story about, say, an animated hammer and a frozen king. Knowledge of how the world usually works is often quite enough to distinguish agents from instruments, even in unexpected combinations—for example, *bla-mas sbrul-gyis bgegs brduñs* “The lama hit the demon with a snake,” or *bla-mas sñags-kyis rdo btšag* “The lama broke the rock with a magic spell.”

Of course, where the proposition contains only one agency participant, one can argue whether that participant is “really” an agent, or “really” an instrument with the agent telegraphically omitted: is the proposition *dug-gis rgyal-po bsad* to be processed as “Poison killed the king” or as “(Someone) killed the king with poison”? Such processing can be quite culture-bound. To an American, the proposition *ser-bas rgyal-po bsad* can only be processed as “A hailstorm killed the king”; a Tibetan would not rule out the reading “(Someone) killed the king with a hailstorm.”

A transitive verb asserts that the event it expresses is the result of an outside agency acting upon the patient, and thus requires an agency participant either stated or understood. But agency participants can occur with intransitive verbs as well; compare, for example, the propositions *bla-ma-s bya-Ø spar* “The

lama chased/frightened away the birds" and *bla-ma-s bya-Ø phur* "The birds flew away/got frightened by/through/because of the lama." In the first proposition, the transitive verb *SPUR* "frighten/make fly" asserts that an outside agency is responsible for what happened to the birds; in the second, the intransitive verb *PHUR* "become frightened/fly away" makes no assertion that the stated agency controlled or instigated the event. With an intransitive verb, the agency participant is still the means or instrumentality whereby the event occurred, but it is demoted in its responsibility.

In fact, we could set up a sequence of propositions as a RESPONSIBILITY HIERARCHY with regard, say, to the frightening of a flock of birds, using the transitive verb *SPUR* "make fly/frighten away" and the intransitive verb *PHUR* "fly away/be frightened," and ranked from the clearest assignment of responsibility to the vaguest, like this:

MOST ASSIGNMENT OF RESPONSIBILITY	
<i>bla-ma-s sgra tshen-po-s bya-Ø spur</i>	"The lama frightened away the birds with a loud noise."
<i>bla-ma-s bya-Ø phur</i>	"The birds got frightened away by the lama."
<i>sgra tshen-po-s bya-Ø spur</i>	"The loud noise frightened away the birds" OR "(Someone) frightened away the birds with a loud noise."
<i>sgra tshen-po-s bya-Ø phur</i>	"The birds got frightened away by a loud noise."
<i>bya-Ø spur</i>	"(Someone/something) frightened away the birds."
<i>bya-Ø phur</i>	"The birds got frightened away."
LEAST ASSIGNMENT OF RESPONSIBILITY	

An instrument can be just about anything whereby or through which the event—including one expressed by an intransitive verb—takes place.¹² Mi-la, for example, *mkhar-las-kyis mi-sdug* “is/grows weary with tower work”; we find such propositions as *bla-ma yon-tan du-ma-s nphags* “The lama is noble with many virtues,” *ri-bo nags-kyis mdzes* “The mountain is beautiful with forests,” *bdag khyim-gyis skyo* “I weary of the household life,” *rgyal-po sbrul-gyis ndžigs* “The king is scared of snakes.” Dpal-sprul rin-po-tshe tells a story of how *rgan-mo khyi-so-s sañs-rgyas* “an old woman became a Buddha by means of a dog’s tooth.” And note the proverb:

*blo rtse-gñis-kyis don mi-ngrub
khab rtse-gñis-kyis nshem-bu mi-len*

The goal is not reached with an unsteady mind;
a stitch is not made with a two-pointed needle.

The notion of instrument is easily extended to include states of mind or other abstractions, yielding expressions that can be translated adverbially in English—for example, *thugs-rdže-s* “with compassion → compassionately,” *tshed-gñer-gyis* “with purpose → purposefully,” *nan-tan-gyis* “with earnestness → assiduously,” *rañ-bžin-gyis* “by its own nature → spontaneously.”

1.2.3. The locus and source roles

There are two role particles, *-la* and *-na*, which signal the LOCUS of an event, and two role particles, *-las* and *-nas*, which signal its SOURCE. The locus of an event is the time or place it occurs; the source of an event is the place or cause or material from or through which it takes place. With verbs of motion the locus is the goal of the motion, and the source is its departure point; a transfer takes place from a source to a locus. With verbs of emotion the locus is that toward which the emotion is directed; with verbs of construction the source is that out of which the patient is built.

¹² Note the following interesting difference between the INSTRUMENT used by an agent and the SOURCE or ground of his action: a proposition A-KYIS *lag-GIS* B-Ø *bzuñ* means that A grasped B by A’s hand, while A-KYIS *lag-NAS* B-Ø *bzuñ* means that A grasped B by B’s hand; in the first case the hand is the instrument used by A, and in the second case the hand is the material ground of the action of grasping. Thus, too, we find, unambiguously, A-KYIS *skra-NAS* B-Ø *bzuñ* “A grasped B by his hair,” but not, in most contexts, ?A-KYIS *skra-S* B-Ø *bzuñ*.

It is clear that the two locus particles and two source particles are closely related. The locus particle *-la* and the source particle *-las* both begin with initial *l*, while the locus particle *-na* and the source particle *-nas* both begin with initial *n*. The two source particles *-las* and *-nas* both end with final *-s*, while the two locus particles *-la* and *-na* both end with final *-θ*.¹³

We can distinguish the *l*- locus from the *n*- locus, and the *l*- source from the *n*- source, by the concept of BOUNDEDNESS: an *n*- locus participant or *n*-source participant is specified as constituting an ENCLOSED SPACE in or out of which the event occurs. For example, when a person sits by the water, or floats on it, or goes toward it, so that the water is not specified as somehow CONTAINING the action, then the water is an *l*- locus; but when a person sits or swims under the water, or dives into the water, or moves within or through the water, so that the water is specified as a closed space relative to the action, then the water is an *n*- locus. Similarly, when a person emerges from the water, or a fish leaps up off its surface, the water is an *l*- source; but when a person comes out from under the water, so that the water contains some component of his observed motion, the water is an *n*- source.¹⁴ We

¹³ As to the *n*- locus and source particles, compare the noun *nañ* "interior, inside, inner part" and—though perhaps unlikely—Old Chinese *nwəb > *nwəd "interior, inside, inner." It is tempting to hypothesize a Proto-Tibetan particle affix *-s "SOURCE" as a formative in both the *n*- source and *l*- source particles; since the agency of an event is, in some sense, a source of that event, the agency role particle *-kyiñ* might be formed with the same *-s affix added to the adnominal particle *-kyi*. Indeed, the Tibetan grammatical tradition has noted the relationship between such propositions as *śiñ-mkhan-gyis sta-re-s* *śiñ btśad* "The woodsman cut the tree with an axe" and *śiñ-mkhan-gyi sta-re-s* *śiñ btśad* "The woodsman's axe cut the tree."

¹⁴ The general rule is subject to several conventions. The source of a transfer—in fact, the source of most sorts of linear motion—is an *n*- source: thus we find *bla-ma lha-sa-nas pe-tśiñ-la ngro* "The lama goes from Lhasa to Peking," *gañ-nas rñed* "Where did you get that from?" The target of an emotion is an *l*- locus—thus *bla-ma tshos-la dga* "The lama delights in the dharma," *rgyal-po lto-la gduñ* "The king yearns for food," *bgegs rgyal-po-la sdañ* "The demon hates the king." With verbs of construction, the material of which the object is made is usually an *l*- source—thus *phor-pa gser-las byas* "He made a bowl out of gold," *rdo-rdže dñul-las grub* "The vajra was made of silver"; but occasionally the material is expressed as an *n*- source—for example, *khañ-pa pha-gu-nas brtsigs* "He built a house from bricks." When an animate being is an owner or recipient of an object, the animate being is an *l*- locus for that object—thus *bla-ma-la phreñ-ba gser-po yod* "The lama has a golden rosary," *sañs-rgyas-la dge-sloñ-gis mišhod-pa phul* "The monk gave offerings to the Buddha," *mi mañ-poi don-la dge-sloñ-gis tshos bśad* "The monk taught the dharma for the sake of the many."

can thus diagram the four particles as follows:

	NONBOUNDED	BOUNDED
LOCUS	-la	-na
SOURCE	-las	-nas

These four particles do the same work as the whole array of English prepositions—*to, at, in, on, for, through*, and so on. One reason they can do so is because English prepositions are often contextually determined. For example, English uses different prepositions for location and direction: we say *He lives AT the monastery* but *He goes TO the monastery*. In Tibetan, the same locus particles are used with verbs of location and verbs of motion. There is no confusion because, of course, the verbs are different—thus *dgon-pa-LA bzung* “He lives AT the monastery” and *dgon-pa-LA ngro* “He goes TO the monastery”; the fact that the locus particle must be TRANSLATED differently when it indicates a site rather than a target is a peculiarity of English.

Now such a site or target may be either animate or inanimate. The difference is important in English, where animate sites and targets may be given special syntactic treatment; again, Tibetan uses the same locus particle in either case, with apparently little confusion.¹⁵ For example, Tibetan expresses POSSESSION with the particle *-la* and the verb *yod* “exist spatiotemporally”—thus *bla-mala phreñ-ba yod* “The lama has a rosary,” *rgyal-po-la ral-gri yod* “The king has a sword.” The construction is the same as that for any assertion of spatio-temporal location—compare *rgya-mtsho-la ña yod* “There are fish in the ocean,” *śin-la spreu yod* “The monkey is in the tree.”¹⁶ The fact that an

¹⁵ Note the similarity to the reading of agents and instruments. Both are marked with the same particle *-kyis*, but in any proposition—say, *rgyal-po-s ral-gri-s dgra bsad* “The king slew the enemy with a sword”—the animate agency is more likely to be read as the agent and the inanimate agency as the instrument.

¹⁶ Note, too, assertions of location which in English can be expressed—metaphorically?—as possession, and assertions of possession which can be expressed—politely?—as location: compare, for example, *ri-la me-tog yod* “There are flowers on the mountain/The mountain has flowers” with *rgyal-po-la ldzi-ba yod* “The king has fleas/There are fleas on the king.”

Similarly, with verbs of transfer, English marks as recipients or beneficiaries those targets of the transfer capable of being affected by the thing transferred—for example, *sañs-rgyas-kyis*

animate site is often best TRANSLATED as a possessor is a peculiarity of English.

When locus or source particles alone are felt to be insufficient, an author may specify locus or source more precisely by using any of several RELATOR NOUNS. Such relator constructions are parallel to such English expressions as *on the top of*, *to the right of*, or *for the sake of*—for example, *brag-gi kha-la* “on top of the rock,” *dei dus-na* “during that time,” *rii og-nas* “from under the mountain,” *dge-sloñ-gi gseb-nas* “out of the midst of the monks.”¹⁷

1.2.4. The accompaniment role

The ACCOMPANIMENT of an event is the participant along with which the event occurs. The particle which expresses the accompaniment role is *-dañ*—thus,

nags-la tshos bṣad “The Buddha taught the dharma IN the woods” but *sañs-rgyas-kyis bya-la tshos bṣad* “The Buddha taught the dharma TO the birds”; note *žiñ-pas žiñ-LA tshu drañs* “The farmer brought water TO/FOR the field.” Classical Tibetan does not—as the examples show—require such a distinction; where a target must be specified as a beneficiary, a benefit relator can be used.

¹⁷ The following are examples of the most commonly encountered relator nouns. SPATIAL RELATORS include *kha* “surface,” *khoñ* “interior,” *khoñs* “middle,” *gan* “proximity,” *goñ* “upper part,” *ngam* “side,” *ño* “face,” *thad* “direction straight ahead,” *thog* “uppermost part,” *mtha* “end,” *druñ* “proximity,” *phyogs* “direction,” *bar* “interval,” *rtsa* “vicinity,” *mtshams* “border,” *slad* “hindpart,” *gseb* “midst.” Among spatial relators may be included the compass points *śar* “east,” *lho* “south,” *nub* “west,” *byañ* “north”; intermediate compass points are consistently read off clockwise—thus *śar-lho* “southeast,” *lho-nub* “southwest,” *nub-byāñ* “northwest,” *byañ-śar* “northeast.” Not unexpectedly, many spatial relators are semantically paired—*dkyil* “center” *nkhor* “circumference,” *sñon* “front” *rdžes* “rear,” *mdun* “front” *rgyab* “back,” *mgo* “head” *mdžug* “tail,” *steñ* “top” *og* “bottom,” *nañ* “inside” *phyi* “outside,” *gyas* “right” *gyon* “left,” *tshu* “this side” *pha* “that side,” *phu* “the upper part of an ascending valley” *mdo* “the lower part of a valley where it merges into the plain.”

There are three TEMPORAL relators—*skabs* “occasion,” *dus* “time,” *tshe* “time.” Elsewhere we find spatial relators used metaphorically for time—thus *goñ* “upper part → time preceding,” *sñon* “front → time preceding,” *mtha* “end → conclusion,” *bar* “interval → time between,” *mtshams* “border → juncture,” *og* “bottom → time following,” *slad* “hindpart → time following.” It is interesting to note that time is conceptualized as moving both from ahead to behind and from above to below. Finally, there are BENEFIT RELATORS—*don* “sake, purpose,” *phyir* “sake, purpose,” *tshed* “benefit, gain.”

for example, *rgyal-po bla-ma-dañ dgon-pa-la slebs* "The king came to the monastery with the lama."¹⁸

A number of verbs, both transitive and intransitive, take an accompaniment as a core participant. These include verbs of distance, such as *RIN* "be far" and *NE* "be near"; verbs of similarity and agreement, such as *MTSHUN* "be like, similar," *NDRA* "be similar, equal," *MÑAM* "be like, the same," *MTHUN* "agree, be in harmony," *STUN* "make agree, harmonize"; verbs of meeting, joining, and mixing, such as *MDŽAL* "meet," *PHRAD* "meet, fall in with," *SPRAD* "bring together, make meet," *SBYAR* "join, connect," *SDEB* "join, unite," *GROGS* "be associated," *DRIS* "be accustomed, acquainted," *LHAN* "be together," *NDRE* "be mixed," *SRE* "mix"; verbs of opposition, such as *KHON* "bear a grudge, be dissatisfied," *NTHAB* "fight, quarrel," *GAL* "be opposed," *SDO* "bid defiance, bear up against, risk, venture"; verbs of connection and separation, such as *BREL* "be connected," *SBREL* "connect, make joined," *BRAL* "be separated," *PHRAL* "separate, deprive"; and verbs of conversation, such as *SMRA* "speak," *GROS* "consult," *LAB* "talk."¹⁹

Thus we find, for example, propositions such as *gnas ndi groñ-khyer-DAÑ riñ* "This place is far FROM town," *dge-sloñ tshos-DAÑ nkhon* "The monk is dissatisfied WITH/tired OF the dharma," *bslu-bai mam-pas khyeu-DAÑ smras* "He spoke WITH/TO the youth in a seductive way," *lus-srog-DAÑ sdo* "He risks Ø his life," *mal-nbyor-pa kha-tshub-DAÑ nthab* "The yogin struggles WITH/AGAINST a hailstorm," *sems mig-DAÑ bsdebs-nas lta, ma-ba-DAÑ bsdebs-nas ñan* "The mind sees by joining WITH the eye, and hears by joining WITH the ear," *nañ-pa-DAÑ lta-ba mi-mthun-pai dus-sig yoñ* "A time will come of views hostile TO/not in accord WITH Buddhism."

¹⁸ The accompaniment particle *-dañ* is the same as the nominal phrase conjunction *-dan*. Note, therefore, that a construction such as *bla-ma-dañ rgyal-po ngro* is syntactically ambiguous between the phrasal conjunction reading (*bla-ma-dañ rgyal-po*) Ø *ngro* "The king-and-lama go" and the accompaniment reading (*bla-ma-dañ*) (*rgyal-po*-Ø) *ngro* "The king goes with the lama," although such ambiguity seems seldom of much moment. The construction *rgyal-po bla-ma-dañ ngro*, on the other hand, is unambiguous: it can only be given the accompaniment reading (*rgyal-po*-Ø) (*bla-ma-dañ*) *ngro* "The king goes with the lama."

¹⁹ Note particularly the verbs *LDAN* "be endowed, possess," and *BTÑAS* "be accompanied, possess," as in *sañs-rgyas yon-tan-dañ ldan* "The Buddha is endowed with excellence," *rgyal-po nkhor-dañ biñas* "The king is accompanied by his retinue." These verbs are discussed, with the lexical formative *-tsan* "POSSESSING," in the section on derivational morphology.

2. THEMATIC STRUCTURE

2.1. PARTICIPANT ORDER

When a participant is marked by its role particle, its function in the proposition is signalled by the particle rather than—as in, say, English—its position relative to the other participants. It is not quite accurate to say that "WORD ORDER is free in classical Tibetan; a change of word order within a nominal phrase can change its meaning—for example, *bla-mas tshos bṣad-pa* "the teaching of dharma by the lama" *tshos bla-mas bṣad-pa* "the dharma that the lama taught." But we can say that in classical Tibetan PARTICIPANT ORDER is free: the two propositions *bla-mas tshos bṣad* and *tshos bla-mas bṣad* have the same propositional content, at least in the sense that the conditions under which the two propositions would be true or false are exactly the same.

But while the propositional content of these two propositions is arguably the same, their THEMATIC structure is different.²⁰ The proposition *bla-mas tshos bṣad* is ABOUT the lama; the proposition *tshos bla-mas bṣad* is ABOUT the dharma. Now the notion of "aboutness" is itself far from clear. But the proposition *bla-mas tshos bṣad* "The lama taught the dharma" is in some natural way a response to the question "What about the lama?" or a lead sentence in an essay about the lama; while the proposition *tshos bla-mas bṣad* "The dharma—the lama taught it" is in the same natural way a response to the question "What about the dharma?" or a lead sentence in an essay about the dharma.²¹

²⁰ In this sense we can say that three kinds of information are encoded in a Tibetan proposition—the LEXICAL information given by each word (*rgyal-po-s dgra-Ø b-rduñ-s* "The king hit the enemy" conveys different lexical information than *rgyal-po-s bgegs-Ø b-rduñ-s* "The king hit the demon"); the SYNTACTIC information given by role particles and tense affixes (*rgyal-po-s dgra-Ø b-rduñ-s* "The king hit the enemy" conveys different syntactic information than *dgra-s rgyal-po-Ø b-rduñ* "The enemy will hit the king"); and the THEMATIC information conveyed by the position of each participant (*rgyal-po-s dgra-Ø b-rduñ-s* "The king hit the enemy" conveys different thematic information than *dgra-Ø rgyal-po-s b-rduñ-s* "The enemy—the king hit him").

²¹ When the patient of a transitive verb is made the theme of a proposition, the proposition may often be conveniently TRANSLATED by an English passive—for example, *rdza-ma rdza-mkhan-gis bzos rgyal-pos btṣag* "The pot—the potter made it and the king broke it/The pot was made by the potter and broken by the king." This is, of course, a feature of English and not of Tibetan.

Given the proposition *bla-mas tshos bṣad* "The lama taught the dharma," we would not be surprised to find the participant *bla-ma* "lama" telegraphically omitted in a following proposition—for example, *bla-mas tshos bṣad-tṣiñ bgegs btul* "The lama taught the dharma and tamed demons"; given the proposition *tshos bla-mas bṣad* "The dharma—the lama taught it," we would not be surprised to find the participant *tshos* "dharma" telegraphically omitted in a following proposition—for example, *tshos bla-mas bṣad-tṣiñ mkhan-pos bkral* "The dharma—the lama taught it and the abbot explained it." In these cases, the missing participant in the second proposition is easily processed as being the same as the theme in the first proposition; the sequences are easy to read. But a proposition such as *bla-mas tshos bṣad-tṣiñ mkhan-pos bkral* is harder to process—although it can certainly be figured out—because it defeats our thematic expectations: the apparent theme of the first proposition cannot be processed as being the same as the missing participant in the second. A proposition such as *tshos bla-mas bṣad-tṣiñ bgegs btul* is thematically ambiguous between the readings "The lama taught the dharma and HE tamed demons" and "The dharma was taught by the lama and IT tamed demons." Note, again, that the telegraphic omission of themes in Tibetan corresponds to pronominalization in English.

The normal order of participants in a Tibetan proposition is as follows. The proposition consists first of a SETTING for the rest of the proposition, which remainder is the ACTION; that action consists of a statement of the THEME, followed by whatever information the proposition supplies about that theme, which is called the RHHEME; that rheme consists of the PERIPHERY—all the incidental participants in the event—followed by the NUCLEUS; and that nucleus, finally, consists of the CORE participant in the proposition, followed by the EVENT.

For example, in the proposition *dei tshe-la rgyal-po-s ral-gri-s dgra-Ø bṣad* "At that time, the king slew the enemy with a sword," the locus participant *dei tshe* "that time" is the SETTING of the proposition, while the remainder is its action; the agent participant *rgyal-po* "king" is the THEME of the action, while the remainder is its rheme; the instrument participant *ral-gri* "sword" is the PERIPHERY of the rheme, while the remainder is its nucleus; and the patient participant *dgra* "enemy" is the CORE of the nucleus, followed only by the event.

The participant in the SETTING slot supplies the place, time, or circumstances which place the event among other events; such settings might be spatial ("In

the woods . . ."), temporal ("From that day onward . . ."), logical ("Therefore . . ."), or circumstantial ("Upon his arrival . . ."). The setting slot need not be filled; but, when it is, the occupant may be a locus (*dei dus-la* "At that time . . ."), source (*de-nas* "After that . . ."), agency (*dei tshig-gis* "With those

*The literary creator has the right to disintegrate
the primal matter of words imposed on him by textbooks
and dictionaries.*

*He has the right to use words of his own fashioning
and to disregard existing grammatical and
syntactical laws.*

The plain reader be damned.

—Eugene Jolas,
Proclamation

words . . ."), accompaniment (*bla-ma-dāñ* "Along with the lama . . ."), or adverb (*gañ-gi phyir-du* "For which reason . . ."). As might be expected, locus participants are found frequently in the setting slot; in fact, in temporal expressions especially, the locus particle may be telegraphically omitted, as easily recoverable, from such a participant—thus *dei dus* "At that time," *ngro-bai tshe* "When he left," *dei sañ* "On the day after that," *slebs-pai do-nub* "On the evening of his arrival." Frequently occurring setting collocations can also be clipped—for example, *de-dus* "At that time," *gañ-phyir* "For which reason."

The THEME, as we have said, is what the proposition is about. Where one or more of the participants in the proposition is human, we normally expect the human participant—or, secondarily, any animate participant—to be the theme, simply because the doings of people, or animals, or spirits, are what people often talk about. But any participant can be the theme of a proposition—for example, a source (*dgon-pa tshen-po-nas dge-sloñ oñs* "It was from the great monastery that the monk came"), an instrument (*ral-gri ndis ryal-pos dgra bsad* "It was with this sword that the king slew the enemy"), or a patient (*rdza-ma ryal-pos bišag* "The pot was broken by the king").

The CORE participant, immediately to the left of the event, is the participant semantically required for the complete statement of the event—that is, the participant that “goes with” the verb, such as the site of a verb of location (*dgon-pa-la bžugs* “dwells in the monastery”), the target of a verb of motion (*nags-la ngro* “goes to the woods”), the accompaniment of a verb of meeting (*bla-ma-dañ mdžal* “meets the lama”), or the patient of a transitive verb (*dgra bsad* “slew the enemy”), where the core participant has not been shifted leftward to become the theme. The PERIPHERAL participants are all the remaining participants—*instruments*, *accompaniments*, *sources*, *loci*—which are not setting, theme, or core.

2.2. TOPICS

A TOPIC is part of a proposition which is singled out by one of several syntactic devices as THAT WHICH IS TO BE TALKED ABOUT. A topic—as opposed to a theme—is always announced; most propositions, in fact, do not have such an announced topic, although every proposition has a theme; the topic and the theme of a proposition may or may not be the same. For example, in the proposition *rgyal-pos dgra ni bsad grogs ni bskyāñs* the participant *rgyal-po* “king” is the theme; but first *dgra* “enemy” and then *grogs* “friend” is signalled as the topic by the topicalizer *ni*, and we might translate “What the king did was this: enemies—he killed them; friends—he protected them.” On the other hand a theme may be brought into greater prominence by being made the topic as well, as in *ñai mthus ni bgegs ndul ser-ba nbebs*, where the participant *ñai mthu* “my magic power” is both theme and topic, and we might translate “My magic power—it tames demons; it casts down hailstorms.”

2.2.1. The topicalizer *ni*

The TOPICALIZER *ni* may be placed anywhere in a proposition except in initial position or before a bound constituent; it signals that what precedes is the topic—for example, *khyod ni blo nor* “You—your thought is in error,” *spañ-bar bya-ba ni spoñs-šig* “What you should renounce—renounce it!” *mar-pa zer-ba ni yod skyes-mušhog mar-pa zer-ba ni med* “Someone called Mar-pa—there is one; someone called Saint Mar-pa—there isn’t.” The source of this topicalizer seems to be an archaic exclamatory particle *ni* that recurs regularly at the end of the first foot in every line of the ancient bardic poetry. For

example, in the archaic chronicle preserved at Tun-huang, which dates to the mid-seventh century, we find the mighty Ndus-sroñ, betrayed by his vassal Mgar, singing the following song:

kye

*gna-i ni thog-ma-ru
gže-i ni dañ-po-la
dguñ-sño ni ma-og-gi
dog-mon ni ya-sten-na
gtsug-gtsugs ni btsugs-legs-te
mthos-te ni dguñ myi-rdib
dog-mon ni sdiñ myi-nams
dguñ-la ni gñi šar-ba
dro-dro ni sa-la dro
sgro-btags ni btags-legs-ste
btsa-na ni dpal yañ dpal
nphañs-pa ni ša yañ khums
ša-khums ni myi yañ gsos
gye
di-riñ ni sañ-lta-na
dog-sriñ ni sbur-bu-is
bya-ltar ni btsos-btsos-te
gnam-du ni nphur-ndod-kyañ
nphur-du ni ndab ma-mšhis
nphur-du ni ndab mšhis-kyañ
dguñ-sño ni phañ-mthos-te
sprin ni go myi nias
ya-ru ni dguñ ma-slebs
ma-ru ni dog ma-slebs
ma-mtho ni ma-dma-ste
khra-i ni gzan-du gyurd
bya-pu ni luñ-tshuñs-na
nbañs-šig ni rdže-ru re
mgar-bu ni rdže-ru re
sbal-pa ni nphur-du re . . .*

Oh
 at the beginning YES in the old times
 in the first days YES of the past
 the blue sky YES below it

SIMPLE PROPOSITIONS

the broad earth YES above it
it was all laid out YES laid out well
the sky was high YES did not fall
the earth was deep YES did not crack
in the sky YES the sun rose
warmer warmer YES warm on the earth
arrows feathered YES feathered well
oh so fine YES fine to see
they were loosed YES slew the deer
slain deer YES nourished the people
Oh
but today YES I look about me
the beetle YES waits in the earth
imitates YES imitates the birds
in the sky YES wants to fly
but has no wings YES to fly with
even had he wings YES to fly with
the blue sky YES is too high for him
could not pass YES beyond the clouds
could not reach YES the sky above
could not reach YES the earth below
not high enough YES not low enough
he becomes food YES for the hawk
in this small valley YES in Bya-pu
a vassal hopes YES to be lord
little Mgar hopes YES to be lord
a frog hopes YES to fly . . .

Another archaic manuscript, also preserved at Tun-huang, entitled *The Proverbs of Mother Sum-pa*, contains a series of aphorisms using the particle *ni* in a different and very effective way as a pure topicalizer. Here we read, for example, *phrag-dog-pai myi ni že-sdañ mye ltar nbar-ro* "An envious man—his hate burns like fire," *ma-ñes-par bsad-pa ni sbrul-gdug yañ sñiñ-rdžeo* "To kill where there is no offense—even a snake has more compassion," *lhas ma-bžes-par lugs bšas-pa ni dmer ngyur-ro* "To slaughter a sheep not accepted by the gods—it becomes polluted," *byur-ñan nad-bu-tšan-la ni yi-dags kyañ sñiñ-rdžeo* "For a sick fool—even a demon feels sorry," *rtag-tu ñes-pa ni mu su-la dgra yañ myi-byed-do* "Perpetual evil—even an enemy does not do it to anyone," *ma ndzañs bu ndzañs-na ni gser-la g.yu spra-la, ma ñan bu ñan-na ni khañ-rul-du lud spuñ-pa-dañ ndrao* "If a mother is wise and the son is wise—it

is like turquoise set in gold; if a mother is wicked and the son is wicked—it is like dung piled in a rotten house."

The topicalizer *ni* is also found in the translation literature rendering such Sanskrit particles as *hi* (as in Sanskrit *no hīdam* Tibetan *de ni ma-lags-so* "That is not so," Sanskrit *kleśā hi mokṣaprāptे āvaraṇam* Tibetan *ñon-moñṣ-pa-mams ni thar-pa nthob-pa-la sgrib-pa* "The defilements are impediments to obtaining enlightenment"), and *tu* (as in Sanskrit *ayam tu viṣeṣaḥ* Tibetan *ndi ni khyad-par yin* "This is different," Sanskrit *akuṣale tu āhrīkyam anapatrapā* Tibetan *mi-dge-la ni khrel-med-dañ ño-tsha-med-pao* "Among the impurities are immodesty and shamelessness").

In the classical texts the topicalizer *ni* has been adapted to a variety of uses. It sets off chapter titles and paragraph headings (as in *leu dañ-po ni* "Chapter One," *dañ-po tshos dar-bai tshul ni* "Part One: How the Dharma Spread"); it topicalizes the theme of an equation (as in *mi-la ni mal-nbyor-pa yin* "Mi-la—he's a yogin," *ña ni bram-ze* "Me—I'm a brahmin"); it topicalizes elements embedded in larger syntactic structures (as in *rgya-mtsho ni tshen-po-la ña mañ-po yod* "The ocean—in it so vast are many fish," *ñi-mai ni od-zer nbar* "The sun—the light of it blazes"); it sets off the key term in commentarial elaboration (as in *bslab-pa kun-gyi gži ndzin-žiñ gsuñs-te bslab-pa ni lhag-pa tshul-khriṁs-dañ lhag-pa sems-dañ lhag-pa šes-rab-kyi bslab-pa gsum-du nañ-pa-la grags-pa* "It is said: 'He holds the foundation of all teachings.' Teachings—these are known among Buddhists as the three teachings of morality and meditation and wisdom").

The topicalizer *ni* can, of course, be used excessively: in poetry especially it is sometimes used only as a convenient device for filling out the meter. An effective stylist uses it sparingly so that it can be most effective—for example, Gtsañ-smyon he-ru-ka, in whose biography of Mi-la ras-pa we find *ñdi ni sñargyi de-ka yin* "Why, this is the same one as before!" *ñai tshed-du sdig-pa sog-tu btañ-ba ni min* "Well, I certainly didn't send you to accumulate sins for my sake!" *žus-pai ni yab mi-gsan* "I told him, but my lord won't listen," *kun bšig-pa ni min* "This is certainly not to tear down all of it," *ñed-kyis ni khyod-kyi gžis phrogs-pa med* "Well, it wasn't we who stole your inheritance!"

2.2.2. The particle *-la* as topicalizer

A topic may also be placed in the setting slot of a proposition and be

signaled with the locus particle *-la*. For example, we find the proverb *žal-la pad-ma ndab-brgyad, thugs-la dug-n̄tsher sdoñ-bu* "As for his mouth—an eight-petal lotus; as for his heart—a thorny bush." The poet Pad-ma dkar-po uses such topicalization in the refrain of a song, where he repeats, at the end of each stanza, *bar-išad-la med-do* "As for hindrances—there aren't any!"

When Mi-la recounts the story of his life, he uses such topicalizing constructions as *gduñ-gi mtshan-la mi-la žes grags-so* "As for the name of my family—it is known as Mi-la," *žiñ-gi miñ-la mthun-rkyen-du išhags* "And the name of that field—it came to be Lucky," *brtsigs-pa de-la ūai gyad-rdor grags-pa yin* "As for that which I built—it is known as my Hero Stone." And Mar-pa's wife, puzzled by her husband's behavior toward Mi-la, says *sku-mdun-du khyi-žig byuñ-ruñ išhos gsuñ, khyod-la thugs-la mi-ndogs* "He teaches the dharma even should a dog appear before him; but as for you—he does not take you to his heart."

This topicalizer, like *ni*, is also used to set off chapter titles and paragraph headings, as in *rgyal-sa mi-ñag-la ſor-bai lo-rgyus-la* "As for the history of the loss of the kingdom to the Tanguts . . ." or *gliñ-bžii miñ-la* "As for the names of the four continents . . ."

Occasionally, too, the two topicalization devices are used together: Mother Sum-pa says *myi phyug-po-la ni dbañ-po nor-dad-išan-gyis phuñ-la, myi ndzañs-pa-la ni ñan-pa phra-dog-išan-gyis rlag-go* "As for a rich man—the greedy powerful ruin him; as for a wise man—the envious wicked destroy him."

2.2.3. Identification and definition with *-ste*

Beginning with the translation literature, we find constructions with the conjunction *-ste* "AND" which approximate the topical constructions we have been discussing. The conjunction *-ste* "AND" can be used to conjoin two propositions with a common theme and with that theme telegraphically omitted in the second member of the conjunction—for example, *bla-ma dgon-pa-la byon-te išhos bžad* "The lama came to the monastery and taught the dharma." Now one—or both—of these conjuncts can be an equative proposition, and that equative conjunct can frequently have the verb *Y/N* omitted; in such cases we will speak of an IDENTIFYING construction.

Some identifying constructions have the equative proposition as their SECOND

member—for example, *gzugs-kyi mam-par rig-pa nbyuñ-ste phyii don-las yin* “The perception of form occurs: (it) is from an external object,” *yul de-na bram-ze ndug-ste dbul-nphoñs-pa-žig-go* “In that land dwelt a brahmin: (he) (was) a poor man.” In such constructions the equative second member comments on or additionally characterizes the theme of the first member.²²

Other identifying constructions with *-ste* have the equative proposition as their FIRST member. It is here that the first conjunct begins to look very much like a topic. Thus in the translation literature we find such constructions as Sanskrit *ye sattvāḥ svarge sambhūtāḥ tajjam sukham pratyanubhavanti* Tibetan *sems-tšan gañ-dag mtho-ris-la nbyuñ-ba-dag-ste de-na yod-pai bde-ba so-sor myoñ-ño* “Sentient creatures who are born in heaven—they taste the bliss that is found there”; and in the classical literature we find such constructions as *ti-lli nā-ro mar-pa-ste bla-ma goñ-ma-mams-kyis mam-thar gsuñs* “Tilli, Nāro, Mar-pa—the lamas of the past have told their life stories.”

Finally, we find highly stereotyped identifying coordinations with truncated equative propositions in BOTH members. These are found frequently in the classical texts, used to enumerate chapter titles and paragraph headings (as in *rma-byai skyes-pai rabs-te skyes-pai rabs gñis-pa* “The fable of the peacock—this is fable number two,” *tshos-kyi nkhor-lo bskor-bai leu-ste btšo-lñā-pa* “The chapter on turning the wheel of dharma—this is number fifteen”); to topicalize a term being defined (as in *sañs-rgyas-te ma-rig-pai gñid sañs-pao*

²² One widespread use of this construction is to give the REASON for the assertion of the former member. In Sanskrit philosophical writing an assertion is often followed by a nominal compound in the ablative case giving the reason for the fact or event asserted; the Tibetan translators rendered such constructions using a conjunction with *-ste* “AND” whose second equative member was a nominal complement with the abstract noun head *phyir* “reason, cause, account” and the equative verb *YIN* omitted. The construction is easier to read than to describe: we find Sanskrit *bādhanañ siddhañ svakarmavipākādhipatyāt* Tibetan *gnod-pa ngrub-ste rañ-gi las-kyi smin-pai dbañ-gi phyir-ro* “Pain comes about: this is because of the dominating force of the ripening of personal karma,” Sanskrit *na nārakā yujante tad-āduñkhāpratisamvedanāt* Tibetan *sems-tšan amyal-bar mi-rigs-te dei sdug-bsñal mi myoñ-bai phyir-ro* “They cannot be considered to be in hell: this is because they do not experience its suffering,” Sanskrit *vācas tu nendriyatvam vacane śikṣaviśeṣapekṣatāt* Tibetan *ñag-gi ni tshig smra-bar bya-ba-la dbañ-po-ñid ma-yin-te slob-pai khyad-par-la lics-pa phyir-ro* “Language is not the controlling force of speech: this is because it requires a *pañca* learning process.” Such constructions were borrowed from the translation language into the classical language, and identifications of this sort are a common stylistic feature of Tibetan philosophical exposition.

"Buddha—he is one who has awakened from the sleep of ignorance," *śi-ra-ste mgo-bo žes bya-bao* "The word *śiras*—this means head"); and to summarize or identify lists of terms (as in *lus-dañ srog-dañ yid-dañ btañ-sñoms-kyi dban-po-dag-ste dbañ-po bži* "The powers of body and life and mind and equanimity—these are the four powers," *phyag-mishan sa-bon sku-rdzogs-te rdo-rdže tshog gsum-po* "The emblem, the seed, and the perfected body—these are the three diamond rituals"). We also find such identifications combined with other topicalizers—for example, *tshos ni gñis-te ndus-byas-dañ ndus-ma-byas-so* "Dharmas—they are of two sorts: to wit, caused and uncaused."



Figure 10. Part of the Ge-sar epic, with drawings of the characters by the scribe

As we have said, propositions can be combined in two different ways. Two or more propositions can be connected together on the same level with any of several CONJUNCTIONS—such as *-tsiñ* “AND,” *-Am* “OR,” *-Yañ* “BUT”—to form a single complex proposition. Or one proposition can be embedded at a lower level within another proposition by being NOMINALIZED—that is, turned into a nominal by the affixation of any of several nominalizing particles. For example, the proposition *bla-mas bgegs btul* “The lama tamed the demon” can be nominalized by the nominalizing particle *-Pa* to become *bla-mas bgegs btul-ba* “the taming of the demon by the lama.” Such a nominalized proposition can then occur anywhere a nominal can occur. It can be the head of a nominal, as in *rgyal-pos [bla-mas bgegs btul-ba]-Ø mthoñ* “The king saw the taming of the demon by the lama”; or it can be a COMPLEMENT that modifies a nominal or verbal head, as in *[bla-mas bgegs btul-ba]-i sgruñ* “the tale of the taming of the demon by the lama,” or a RELATIVE that modifies a nominal head, as in *[bla-mas bgegs btul-ba]-i bgegs* “demon which the lama tamed.”

The coordination of propositions by juxtaposing them on the same level is sometimes called PARATAxis; the subordination of propositions by embedding one proposition within another is sometimes called HYPOTAXIS. A paratactic construction thus relates a sequence; a hypotactic construction expresses a hierarchy. Hypotaxis may be more confusing, since the reader must still process the propositions sequentially and is thus often forced to store the beginning of one proposition while processing another; on the other hand, parataxis may be more vague, since the reader must process the juxtaposed propositions often without overt syntactic clues to their relation.¹

¹ Sometimes the style of an author can be related to a predilection for one or the other grammatical structure. The following passage from Faulkner's short novel *The Bear* is both highly hypotactic and typically Faulknerian:

... and the desk and the shelf above it on which rested the ledgers in which McCaslin recorded the slow outward trickle of food and supplies and

equipment which returned each fall as cotton made and ginned and sold (two threads frail as truth and impalpable as equators yet cable-strong to bind for life them who made the cotton to the land their sweat fell on), and the older ledgers clumsy and archaic in size and shape, on the yellowed pages of which were recorded . . .

Here the cumulative hypotaxis (*the shelf on which . . . the ledgers in which . . . the trickle which . . . them who . . . on the pages of which . . .*) serves to reinforce an oppressive mood of involuted relationships, and—perhaps even more—to subordinate the entire commercial process to McCaslin's desk and shelf. Compare this passage with the following highly paratactic and similarly characteristic description from John LeCarre's *Tinker, Tailor, Soldier, Spy*:

The first burst shot off a back wheel and turned the car over. He saw the wheel fly over the bonnet as the car took to the ditch on the left. The ditch might have been ten feet deep but the snow let him down kindly. The car didn't burn so he lay behind it and waited, facing across the track hoping to get a shot at the machine-gunner. The next burst came from behind and threw him up against the car.

Here the cumulative parataxis (*and, but, so, and, and*) achieves an effect of hurried but disjointed action: cohesion is maintained lexically, rather than by explicit syntactic relationships, as key descriptive terms are repeated (*burst . . . wheel . . . car, wheel . . . car . . . ditch, ditch . . . snow, car . . . machine-gunner, burst . . . car*). Similarly, compare the following hypotactic passage from Janet Flanner's *The Cubical City*,

Her honesty and luxury from which, now that she was well established in life, she seemed to gather such strength, were like a rich endowment from which she drew not only the expensive decoration of her grey furs that gave her grey eyes the value of semi-precious stones but also her special free attitude toward the costly walls that housed her, the sum of all these expenses only being a tithe of what was her fund of resourcefulness and amplitude.

with the following passage from Saul Bellow's *Humboldt's Gift*:

Wonderful things are done by women for their husbands. She loved a poet-king and allowed him to hold her captive in the country. She sipped beer from a Pabst can. The room was low-pitched. Husband and wife were large. They sat together on the Castro sofa. There wasn't enough room on the wall for their shadows. They overflowed onto the ceiling.

As in English, any particular Tibetan text is inevitably a mixture of parataxis and hypotaxis;

1. CONJOINED PROPOSITIONS

1.1. CONJUNCTIONS

A CONJUNCTION is a particle that joins propositions together paratactically; in classical Tibetan propositions are linked by conjunctions, while sentences are not. In the classical language there are three types of conjunction—ALTERNATIVE (“PROPOSITION *or* PROPOSITION”), ADVERSATIVE (“PROPOSITION *but* PROPOSITION”) and COORDINATIVE (“PROPOSITION *and* PROPOSITION”).²

An indefinite number of propositions can be linked together by such conjunctions. This horizontal expansion can extend to the limits of stylistic tolerance, which in the classical language seem to be quite broad. Thus the series “PROPOSITION *and* PROPOSITION *and* . . . PROPOSITION” may reach some length before it becomes a SENTENCE by the addition of a performance particle.

In all three types of conjunction it is expected—and in an extended sense perhaps even mandatory—for the conjoined propositions to have some theme

still, we can speak of Tibetan syntactic styles, bearing in mind that these are broad generalizations. Individual AUTHORS tend toward one or the other type of construction: Grags-pa rgyal-mtshan and Gtsañ-smyon he-ru-ka, for example, are typically paratactic, while Tsoñ-kha-pa or the fifth Dalai Lama Blo-bzañ rgya-mtsho are typically hypotactic. Particular GENRES as well can be distinguished syntactically: historical and narrative prose generally tend toward parataxis, while philosophical and technical prose tends toward hypotaxis. Some poetic genres—such as mystic song—are predominantly paratactic; others—such as the florid and highly Sanskritized encomia that often preface expository texts—can be quite hypotactic. Such hypotaxis also frequently serves to mark an elegant or formal REGISTER: the long honorific salutation at the head of a Tibetan letter is highly hypotactic, as opposed to the parataxis that marks the colloquial or informal register of such a deliberately nonliterary stylist as Dpal-sprul Ndzigs-med tshos-kyi dbañ-po.

². Generally speaking, we can characterize the conjunctions by making two distinctions: the alternative conjunction “OR” links propositions only one of which is asserted to be true, while both the adversative conjunction “BUT” and the coordinative conjunction “AND” link propositions all of which are asserted to be true; the adversative conjunction “BUT” asserts that the propositions it links are in some way semantically or pragmatically opposed, while the coordinative conjunction “AND” asserts that the propositions it links are in some way semantically or pragmatically congruent.

in common; thus we can expect also to find thematic participants omitted from latter members of the conjunction, even to the extent of reducing such a proposition to the event alone.

1.1.1. The alternative conjunction

The ALTERNATIVE CONJUNCTION PARTICLE is *-Am*.³ The hyphen indicates that the form is BOUND and occurs only with an immediately preceding proposition. The capitalization indicates that the vowel prefixes to itself the last consonant of the preceding syllable coda—thus *dag-gam*, *rīñ-nām*, *yod-dam*, *yin-nām*, *thub-bam*, *npham-mam*, *sgyur-ram*, *nbul-lam*, and *lags-sam*. A preceding open syllable becomes a diphthong—thus *dgaam*, *nbiām*, *rgyuam*, *dgeam*, and *ngroam*. In the scansion of verse such diphthongs may occasionally be counted as two syllables for the purposes of meter.

The alternative conjunction offers a choice between two or more possibilities, only one of which is asserted to be true. On the one hand, the proposed alternatives may be—as with the adversative conjunction “BUT”—perceived as semantically or pragmatically opposed to each other—thus *mü rigs mthoam mü rigs dman* “Either a family is high or the family is low,” *nad-pa gson-nam ntshi* “The sick person either lives or dies,” *sañs-rgyas-kyis tshos bṣad-dam ma-bṣad* “Buddhas have either taught the dharma or not,” *rgyal-pos dgra gsod-dam dgras gsod* “Either the king kills the enemy or the enemy kills him.”

On the other hand, the proposed alternatives may be—as with the coordinate conjunction “AND”—perceived as semantically or pragmatically congruent, although it is still asserted that only one of the propositions is true for any single individual at any one moment—thus *mal-nbyor-pa ri-la ndzeg-gam luñ-pa-la ngrims-sam phug-pa-la bžugs* “A yogin ascends the mountains or wanders in the valleys or abides in a cave,” *bgegs-nams-kyis sems-tṣan skrag-gam snad-dam gsod* “Demons frighten or harm or kill sentient creatures,” *dge-sloñ hzañ-pos tshos thos-sam bsam-mam sgom* “A virtuous monk studies the dharma, or ponders it, or meditates upon it.”

³ We will note here only briefly that this is clearly the same as the sentence-final question particle *-Am*. We can—and, later on, we will—hypothesize that the Tibetan interrogative is derived ultimately from an underlying alternative conjunction.

1.1.2. The adversative conjunction

The ADVERSATIVE CONJUNCTION PARTICLE is *-yañ*, which becomes *-kyāñ* after preceding final *-g*, *-d*, *-b*, and *-s*; becomes *-yañ* after preceding final *-ñ*, *-n*, *-m*, *-r*, *-l*, and open stressed syllables; and becomes *-añ* after preceding open unstressed syllables.⁴

The adversative conjunction links propositions all of which are asserted to be true, but which are asserted to be in some way semantically or pragmatically dissonant: propositions so joined are in a relation of thesis and antithesis. Thus we find such SEMANTIC dissonances as *gdoñ-pa dkar-yañ bsam-pa nag* "His countenance is white but his thoughts are black," and such PRAGMATIC dissonances as *rgyal-po btud-kyāñ khros* "The king bowed down but was angry" and *sañs-rgyas ndžig-ten-la skyes-kyāñ ndžig-ten-gyis ma-gos* "The Buddha is born in the world but is not sullied by the world." The wit of what we can call ADVERSATIVE PROVERBS often lies in their pointing out an unexpected pragmatic dissonance: for example, in the archaic Tun-huang manuscript entitled *The Sayings of Mother Sum-pa* we find *nbrog-rtsa bzañ-yañ rkañ-ngras dbyar rdžud-do* "The pasture grass is good—but it tangles your feet in summer."

We can point out too that a conjunction such as *gzon-nu yin-kyāñ dbañ-po mo* "He is young but his faculties are keen" embodies a presupposition that being young and being sagacious are pragmatically dissonant, while a conjunction such as *gzon-nu yin-kyāñ dbañ-po mi-mo* "He is young but his faculties are not keen" presupposes precisely the opposite. We may similarly note the presuppositions embodied in such conjunctions in *smras-kyāñ mi-ñan* "He speaks but does not listen" or *ntshal-yañ mi-ñed* "He seeks but does not find," which assume that speaking and listening or seeking and finding are pragmatically consonant.

⁴ This bound conjunction *-yañ* is clearly related to—but is not the same as—the connective *yañ* "ALSO," which is not bound but free. We can point out too that the classical form *-yañ* is the only form in *Y-* among the particles, and appears in fact to derive from a Proto-Tibetan form *-KYAÑ, which at one time underwent the same morphophonological changes as *-kris* and *-kri*. By the classical period, however, the voiced form of the particle—the form found after preceding sonorant finals—had become *-yañ* rather than the expected *-gyañ, although we still find the voiced form *-gyañ* sporadically instead of *-yañ* in the archaic Old Tibetan manuscripts preserved at Tun-huang.

Such presuppositional relations may be more remote. Thus, for example, we make the pragmatic assumption that enemies rejoice at our misfortunes rather than weep at them: hence Mi-la ras-pa, when he is starving in a cave, sings *dgra sdañ-ba bltas-kyāñ mt̄shi-ma n̄shor* "Though a bitter enemy see me he would weep," linking the two antithetical propositions with the adversative conjunction. Similarly, Mar-pa promises Mi-la that he will not have to tear down the tower he is to build, saying *ndi b̄sig-kyāñ mi-dgos* "Though you tear this down it is not necessary/You can tear this down, but you don't have to," expressing the pragmatic assumption that people tear down what they build only when necessary. That this promise may most easily be TRANSLATED into English simply as "You will not have to tear this one down" does not change its adversative character in Tibetan.⁵

1.1.2.1. *Dialect variants*

The adversative conjunction *-yañ* has two DIALECT VARIANTS. The older variant—apparently related to the Proto-Tibetan form *-kyāñ—is *-kyi*, which resembles the adnominal particle *-kyi* but is almost certainly unrelated to it: thus we find *tshig brdžod-kyi don mi-ngral* "He says the words but does not explain the meaning," *bza-ba za-yi btuñ-ba mi-ndod* "I am eating the food but don't want anything to drink," *rgya-mtsho-la mu-tig nbyuñ-gi gser mañ-po mi nbyuñ* "Pearls are found in the ocean but not much gold."

This variant is found predominantly in earlier material, especially in translations from the Sanskrit—for example, Sanskrit *idam eva satyam moham anyam* Tibetan *ndi ni bden-gyi gžan ni rdzun-pao* "This is truth but the other is falsehood," Sanskrit *sāmṛytam etal lakṣaṇam na pāramārthikam* Tibetan *mt̄shan-ñid ndi ni kun-rdzob-pa yin-gyi don-dam-pa ni ma-yin* "This characteristic is conventional rather than absolute," Sanskrit *katham vāyau varṇa-sadbhāvah, śraddhānīya eṣo 'nho nānumānīyah* Tibetan *rluñ-la kha-dog dži-*

⁵ Interestingly, we find cases where two conjoined antithetical propositions are identical: here all latter participants are left out, leaving only the verb. Such propositions are found predominantly with stative verbs, and have an intensive meaning; semantically they seem to be asserting that there is no way the predication could be opposed—thus *bla-ma t̄sheañ t̄she* "The lama is very great," *bu-mo mdzes-kyāñ mdzes* "Oh but the girl is beautiful." *lam riñ-yañ riñ* "The path is so very long." The construction is old in Tibetan. In the archaic manuscripts preserved in Central Asia, for example, we find *bisa-na ni dpal-yañ dpal* "If you look upon it—how glorious!"

ltar yod tše-na, don ndi ni dad-par bya-ba yin-gyi rdžes-su dpog-par bya-ba ni ma-yin-no "How can air have color? This is a matter for faith rather than for examination," Sanskrit *vijñānaśaṭkam pravartate na tu kaścid eko draṣṭāsti* Tibetan *mam-par šes-pa drug nbyuñ-gi lta-ba-po gtšig-po med* "The six perceptions occur but there is no single perceiver." Note the following as well, from the Tibetan translation of the Buddhist ecclesiastical laws—*khyim-du khri-stan mthon-po-la ndug-par byai der ñal-bar ni mi-byao* "You may sit on a high bed in a house, but you may not sleep there," *dge-sloñ mgo-reg ndidag ni tshod-ma ro sna-tshogs-dañ ldan-pa-dañ, nbras-tshan za-bar os-pa ma-yin-gyi, nas rul-pa za-bar os-pa yin-no* "These shave-headed monks are not worthy to eat many-flavored dishes and boiled rice, but are worthy to eat rotten barley," *khyod ni ryal-por os lags-kyi bdag ni os ma-lags-so* "You are worthy to be king, but not I."

This variant is found too in the archaic chronicle preserved at Tun-huang: for example, we find *yi-dags ma-bab-kyi lto-sbyor-du ñes-so* "You have not been possessed by a demon, but surely you are hungry." As late as the thirteenth century, in the *Legs-par bśad-pa rin-po-tshai gter* of Sa-skyā paṇḍita, we find such constructions as *yon-tan-ldan-pa yon-tan-la dga-yi yon-tan-med-mams min* "The virtuous delight in virtue, but not the unvirtuous," *skye-bo dman-mams dam-pa-la khyad-gsod byed-kyi dam-pas min* "Lowly persons despise holy persons, but holy persons do not." From that point—perhaps from the fourteenth century on—the frequency of this variant diminishes markedly; its use tends to become restricted to the verbs *YIN* "be the case" and *MOD* "be true," and the stereotyped expressions *yin-gyi~mod-kyi~yin-mod-kyi* come to function almost exactly like *-yañ*, especially in philosophical texts.

The later dialect form is *-ruñ*, found especially in the fifteenth-century colloquial prose of Gtsañ-smyon he-ru-ka, the crazy saint of Gtsañ, the author of the famous biography of Mi-la ras-pa and the redactor of his collected songs. Here we find such conjunctions as *šes-ruñ mi-šes-pa ltar byed* "He knows, but acts like one who does not know," *sku-mdun-du khyi-žig byuñ-ruñ tshos gsuñ* "Though a dog appear before him he teaches dharma," *thugs dges-pa-žig byuñ-ruñ mri-lam-la nbyuñ-sa med gsuñs* "He was delighted, but said, 'Dreams have no meaning,'" *sems-gso mañ-po mdzad-ruñ tshogs-la rol-pai ndu-šes stor* "She comforted me greatly, but I had lost all thought of enjoying the ritual food." Such constructions with *-ruñ* are found in the prose of Gtsañ-smyon, but in the songs attributed to Mi-la himself—most of which in all likelihood considerably predate their collection by Gtsañ-smyon in the fifteenth century—we find the consistent use of *-yañ* rather than *-ruñ*—for

example, Mi-la sings *bsgom̄-pas ma-grol-yañ mi-med luñ-stoñ-du n̄shi-bar ſog* “Though I be not liberated by meditating, may I yet die in a lonely empty valley.”

1.1.3. The coordinative conjunctions

There are two *coordinative conjunction particles*. The first is the coordinative conjunction *-tšiñ*, which becomes *-tiñ* after preceding final *-g*, *-d*, and *-b*; becomes *-žiñ* after preceding *-ñ*, *-ñ*, *-m*, *-r*, *-l*, and open syllables; and becomes *-xiñ* after preceding final and postfinal *-s*. The second is the coordinative conjunction *-ste*, which becomes *-ste* after preceding final *-g*, *-ñ*, *-b*, *-m*, and open syllables; becomes *-te* after preceding final *-n*, *-r*, *-l*, and *-s*; and becomes *-de* after preceding final *-d*.

These coordinative conjunctions link propositions all of which are asserted to be true, and which are asserted to be in some way semantically or pragmatically consonant. Thus—to use the same example as before—the adversative conjunction *gžon-nu yin-kyāñ dbañ-po mo* “He is young but his faculties are keen” embodies a presupposition opposite to that embodied in the coordinative conjunction *gžon-nu yin-te dbañ-po mo* “He is young and his faculties are keen,” the former assuming the pragmatic incongruence of youth and sagacity and the latter assuming their pragmatic congruence.

Among SEMANTIC congruences, we can group together what we can call PARAPHRASE coordinations, where the second conjunct says pretty much the same thing as the first—for example, *gnad-tšiñ nt̄she* “He hurts and harms,” *ndžigs-žiñ skrags* “He is frightened and terrified,” *bsil-žiñ grañ* “It is cool and cold,” *mdzes-te sdug* “She is lovely and beautiful.” And we can distinguish those from what we can call PARALLEL coordinations, where the second conjunct adds to the first conjunct additional information of the same type—for example, *ša-la za-žiñ khrag-la nthuñ* “They feed on flesh and gorge on blood,” *byañ-tshub ndi-las nbyuñ-ste sañs-rgyas ndi-las skye* “Enlightenment comes from this, and Buddhas are born from this,” *mig-gis gzugs-mams mi-mthoñ-žiñ yid-kyis tshos-mams mi-šes* “The eye does not see forms, nor does the mind perceive thoughts,” *drod gnod-de bsil-ba phan* “Heat is harmful and cold beneficial.”

Similarly, among PRAGMATIC congruences, we can group together what we can call SEQUENTIAL coordinations, where, as a practical matter, the second

conjunct happens after the first—for example, *nbros-siñ gab* “He runs away and hides,” *bu-mo siñ-la ndzegs-siñ me-tog nthogs* “The girl climbed up the tree and picked the flower,” and, from an archaic Central Asian manuscript, the couplet *ša sñegs-te ni sleb, npañs-te ni bžigs* “He pursued the deer, yes, and caught it; he shot it, yes, and hit it.” And we can distinguish those from what we can call SIMULTANEOUS coordinations, where, as a practical matter, the second conjunct happens at the same time as the first—for example, *bla-ma-dañ mdžal-te žal mthoñ* “He met the lama and saw his face,” *rgyal-pos dgra brduñs-te sgyl* “The king struck the enemy and threw him down,” *ña ntšor-žiñ ntsho* “They catch fish and make a living,” *ngags-te ſi* “He choked and died.”⁶

1.1.3.1. Simultaneous and periphrastic constructions

In many such simultaneous coordinations, it is clear that the first conjunct is narrower in scope than the second conjunct, and specifies a condition under which the second conjunct takes place—for example, *ske bsdams-te bsad* “He squeezed his throat and killed him/He strangled him,” *ndžigs-te bros* “He was frightened and ran away/He ran away frightened,” *po-ti khyer-te soñ* “He carried his books and went/He went off carrying his books,” *rgyal-pos gyog-pos bskor-žiñ bla-mai druñ-du byon* “The king was surrounded by his servants and came into the presence of the lama/The king, surrounded by his servants, came into the presence of the lama,” or, from an archaic manuscript preserved in Central Asia, *rheg-ga rbeg-ſi rma byeu gtšig-du nphrul-nas nphur-te*

⁶ Of course, such sequential and simultaneous coordinations form a continuous scale, from the clearly sequential at one end (such as *bla-ma dgon-pa-la bslebs-te tshos bṣad* “The lama arrived at the monastery and taught the dharma”) to the clearly simultaneous at the other (such as *nu-žiñ sdod* “He weeps and waits”), with a grey area in between, where the two types shade into each other—for example, *glu blañs-žiñ žabs-bro mdzad*, which can be read either as “He sang and (then) danced” or as “He sang and danced (at the same time).”

We can note here that, when such conjoined verbs are negated, the negative particle *mi* “NOT” precedes the second verb, as opposed to English, where the negative marker precedes the first verb—thus, from the *Legs-par bṣad-pa rin-po-tshai gter* by Sa-skyā pañdita, *mkhas-pa bṛtsad-tṣiñ ma-dris-pa, de-yi bar-du gr̥iñ mi-dpogs* “As long as one has not disputed and questioned a wise man, one has not measured his depth,” or, from the biography of Mi-la ras-pa by Gtsañ-smyon he-ru-ka, *yul-nas dmag-gyabs-te ma-bsad-na, ndis da-duñ yul ndi phuñ-du ndžug* “If we do not call a host from the village and kill him, this one will ruin the village even more.”

soñ "Rbeg-ga rbeg-ši, having changed into a little peacock, went flying away."

In fact, we not infrequently find such constructions where the first conjunct functions almost adverbially to the second conjunct—for example, *ntsheñ-ste sñam* "was happy and thought/thought happily," *gsañ-sie brkus* "acted in secret and stole/stole secretly," *bskyar-te btañ* "repeated and .sent/.sent repeatedly," *nhab-pa med-tšin si* "was without struggle and died/died peacefully," *bu nkrid-de oñs* "brought his son and came/came with his son," *nphar-te ngo* "flies and goes/goes flying," *tsheg-sgra-dañ btšas-te nbar* "is possessed of a crackling sound and burns/burns with a crackling sound."

When the verb in the second conjunct is one with the broadest possible scope, such as *YOD* "exist spatiotemporally" or *NDUG* "stay, abide, be there" (or their elegant forms *MTSHIS* and *GDA*, respectively), the construction becomes PERIPHRASTIC—for example, from the same archaic Central Asian manuscript cited above, *sñi-la rma byeu-žig thogs-tšin ndug* "A little peacock was there tangled in the snare," or, from the Ge-sar epic, *nbu rtsig-po phru-gu bde-mo žig-la gyur-te yod* "The tiny worm was there become a beautiful child," or, from other archaic Central Asian manuscripts, *sñar phyug-tšin phoñs-te ndug* "He was rich before and was now poor," *sñin myig-mon-kyis mthoñ-ste myi bros-te mtshis* "The sharp-eyed demon saw him, and the man was there fled away."

1.1.3.2. Dialect variants

Probably the most common of these periphrastic forms in the classical texts are *-tšin NDUG* and *-tšin YOD*. Note the following examples from an archaic divination manual found in Central Asia—*lha bzañ-po-žig ngo-žin ndug* "A good god is leading you," *gdon drag-po-žig yod-pas, gnod-par sems-žin ndug* "A fierce demon who is there is intending to harm you," *mo ndi ni . . . nad-pa-la btab-na myi lha-dañ theu-rañ stoñ-žin ndug* "If this lot has been cast for a sick person, then unavailing are men, gods, and demons," *ši-las lha des bskyabs-žin ndug* "That god has been protecting you from death." Similarly, note these examples from the biography of Mi-la ras-pa—*ña gañ za zer ū-žin ndug* "'What shall I eat?' she said, crying," *mthu-tšhen las tsi byed-tšin ndug* "Great Magician, what work are you doing?" *bla-ma rñog-pa grwa-pa mañ-po-la brtag-ñiñ ntshad-tšin ndug* "Lama Rñog-pa was teaching the *Hevajra Tantra* to many monks."

As time goes on, the conjunction *-tsin* in such constructions begins to take on different forms in Middle Tibetan, apparently in the sequence *-tsin* > *-kyin* > *-gin* > *-gi*.⁷ Thus, for example, in the archaizing chronicle *Rgyal-rabs gsal-bai me-loñ* we find *bu-mo mdzes-ma-tsig rin-po-tshei snod-na me-toq nthus-gin ndug* "A beautiful girl was gathering flowers in a jeweled vase"; in the biography of Mi-la we find *nor yod-dgu-tsog nbul-bar khyer-nas nbyon-gin yod* "He has arrived bringing as an offering all the wealth he has." Apparently

*the dirge disintegrates to one and one and
one and one
less
the illuminating analysis of a conjunction . . .*

—Walter Lowenfels,
Apollinaire An Elegy

these various forms were more or less interchangeable. Among the block-prints of the biography of Mi-la, for example, we find the reading *ned-mams yoñ-žin yod* "We are coming" in the Bstan-rgyas-gliñ, Spo, and Bkra-śis lhun-po prints, but *ned-mams yoñ-gin yod* in the Spuñs-thañ print; and the prints give numerous examples of variation between *-gin* and *-gi*—thus *bśig don med-par bśig-gin ndug* "He is tearing it down without a reason for tearing it down" in the Spuñs-thañ, Bstan-rgyas-gliñ, and Bkra-śis lhun-po prints, but . . . *bśig-gi ndug* in the Spo print, *na khyuñ-po džo-sras oñ-gin yod* "I, Khyuñ-po džo-sras, am coming" in the Bstan-rgyas-gliñ, Spo, and Bkra-śis lhun-po prints, but . . . *oñ-gi yod* in the Spuñs-thañ print.⁸

⁷ In contemporary newspaper Tibetan we regularly find the form *-kyin*, as in *sa-mishams-la nhab-res byed-kyin yod* "They are fighting on the border," *rdul-phran nus-šugs bzo-grwa-la bed-spyod-kyin yod* "Atomic energy is being applied to industry." We find the form *-gi <-kyi>* regularly used in Central Tibet, as in *ña ñogi yö <ña ngro-kyi yod>* "I am going," *kho leka tseg i duk <khos las-ka byed-kyi ndug>* "He is working," and *-ki <-kyi>* regularly used in Lhasa City, as in *tsha suki yö <dža bsud-kyi yod>* "I am churning the tea," *tshatsep thi siki tu <phyag-deb ndi gzigs-kyi ndug>* "He is studying this book."

⁸ I have a feeling that the print from Spo, which is in southeastern Tibet, tends to favor

1.2. GAPPING

We have seen numerous examples, under the Telegram Principle, of the backward-looking omission of a previously expressed participant. In the syntactic device we will call GAPPING, on the other hand, we find the forward-looking omission, in a prior conjunct, of some portion of the proposition, including the verb, which will be expressed in a later—and syntactically parallel—conjunct. The omitted portion is optionally but frequently replaced with the phrasal conjunction *-dañ*.

Note, for example, the proverb *tshañ nthuñ-ba-la mñon-par dga-bai mi bdag-la phan-dañ gžan-la bde-Ø mi-nus* "A man who delights in drinking beer is incapable of benefit to himself or happiness to others." This proposition is processed as a conjunction of the two propositions *tshañ nthuñ-ba-la mñon-par dga-bai mi bdag-la phan-Ø mi-nus* "A man who delights in drinking beer is incapable of benefit to himself" and *tshañ nthuñ-ba-la mñon-par dga-bai mi gžan-la bde-Ø mi-nus* "A man who delights in drinking beer is incapable of happiness to others"; the participant *tshañ nthuñ-ba-la mñon-par dga-bai mi* "man who delights in drinking beer" is—as we might expect—telegraphically omitted in the second conjunct; but, in addition, the patient particle, verb phrase, and conjunction particle *-Ø mi-nus(-Tšiñ)* have been omitted from the prior conjunct and replaced with *-dañ*, from which they must be reconstructed by the reader. Of course, such reconstruction is impossible until the reader has reached the end of the second conjunct, and the interpretation of the proposition as a whole is held in reserve until that time—and thus the sense of suspension and resolution which can make a gapped conjunction an effective stylistic device.

Similarly, note the proverb *mkhas-pa šes-rab-dañ blun-po dad-pai rdžes nbrañs* "A wise man follows the track of wisdom, and a fool of credulity." Here, the adnominal particle, patient participant, verb phrase, and conjunction particle *-kñi rdžes-Ø nbrañs(-Tšiñ)* have been omitted from the prior conjunct and replaced with *-dañ*, to be reconstructed by the reader. And, in the biography of Mi-la ras-pa, we find *sa sa-mal-dañ rdo rdo-mal-du skyol-žig* "Take the

constructions with *-gi*, while the Central Tibetan and Bhutanese prints tend to favor constructions with *-gin*—for example, *nañ-du šog gsuñ-gin sdug* "He says, 'Come on in!'" in the Spuñs-thañ, Bstan-rgyas-gliñ and Bkra-śis lhun-po prints, but . . . *gsuñ-gi sdug* in the Spo print, *pha-džo khru slog-gin yod* "My lord father is ploughing" in the Spuñs-thañ, Bstan-rgyas-gliñ and Bkra-śis lhun-po prints, but . . . *klog-gi yod* in the Spo print.

earth back to where you got the earth and the stone back to where you got the stone!" and—without the phrasal conjunction *-dañ—bu skyes-pa-la miñ*, *tshañ drañs-pa-la gtam bya-bar gda* "When a son is born a naming ceremony, and when beer is offered a story, should be done," *khañ-pai nañ sa-tshub-dañ ros gañ, phyi ñu-tshoñ-gis gañ-ba de pe-tas mthoñ* "Pe-ta saw the inside of the house filled with dust and corpses, and the outside filled with lamentation."

2. NOMINALIZATION

NOMINALIZATION converts an entire proposition into a nominal by the addition of a final nominalizing particle:⁹ for example, given the proposition *bla-mas bgegs btul* "The lama tamed the demon," we could find the nominalized propositions *bla-mas bgegs btul-ba* "the taming of the demon by the lama," *bla-mas bgegs btul-sa* "the place where the lama tamed the demon," *bla-mas bgegs btul-tshul* "the way the lama tamed the demon," and so on..

A nominalized proposition—of any length and complexity—can occur anywhere that a nominal normally occurs. The syntactic distribution of, say, the nominal *dgon-pa* "monastery" is exactly the same as that of the nominal *bla-mas bgegs btul-sa* "place where the lama tamed the demon"—for example, *dgon-pa ri-la yod* "The monastery is on the mountain" and *bla-mas bgegs btul-sa ri-la yod* "The place where the lama tamed the demon is on the mountain," *dgon-pai žin-bkod* "a map of the monastery" and *bla-mas bgegs btul-sai žin-bkod* "a map of the place where the lama tamed the demon."

Such nominalization is extremely common in classical Tibetan. Like many other Tibeto-Burman languages, Tibetan developed quite a number of nominalizing particles, often by the syntactic specialization of nominals.¹⁰

⁹ Note that only three kinds of particle can immediately follow a verb in a Tibetan proposition—performatives, conjunctions, and nominalizers.

¹⁰ We can here mention several such nominalizers which will not be discussed in more detail below—*-tshul* "way that PROPOSITION," as in *bla-ma ngrul-tshul* "the way that the lama walks"; *-ren* "danger of PROPOSITION," as in *dmyal-bar nygo-ren* "the danger of going to hell"; *-dus* "time that PROPOSITION," as in *tshuñ-ma-la bu bitsas-dus* "the time that his wife bore a son"; *-res* "turn at PROPOSITION," as in *tshañ-la nthuñ-res* "a turn at drinking beer"; *-lugs* "method of PROPOSITION," as in *bsam-yas bžeñ-lugs* "the method of building Bsam-

However, the single most important nominalizer in the classical language is the nominalizer *-pa*, which is the particle used not only for the most general and semantically neutral proposition-centered nominalization but also in the formation of complement and relative constructions.¹¹ Since the next several sections will deal with such constructions, found only with the nominalizer *-pa*, we will here first review a number of other nominalizers found in the classical texts.

2.1. THE NOMINALIZERS

The Tibetan nominalizers fall into two groups. Some nominalizers, including the nominalizer *-pa*, yield nominals, as we might expect, expressing some aspect of the proposition as a whole: thus, for example, given *rgyal-pos bgegs-a mda-Ø rgyag* "The king shot an arrow at the demon," we might find *rgyal-pos bgegs-la mda-Ø rgyag-pa* "the shooting of an arrow at the demon by the king," *rgyal-pos bgegs-la mda-Ø rgyag-sa* "the place where the king shot an arrow at the demon," *rgyal-pos bgegs-la mda-Ø rgyag-grabs* "the preparation for the king to shoot an arrow at the demon," and so on. We will call these PROPOSITION-CENTERED NOMINALIZERS. Other nominalizers, however, yield

yas"; *-thabs* "opportunity for PROPOSITION," as in *iam-la gžol-thabs* "a chance to dismount on the road"; *-grabs* "preparation for PROPOSITION," as in *ñai grogs-po kur log-n̄gro-grabs* "preparations for all my friends to return." In all these cases—and in others I have undoubtedly omitted—we find that these nominalizers also occur as the head of nominal complements—thus not only *bisas-dus* "the time of giving birth" but also *n̄gro-bai dus* "the time of going," not only *gžol-thabs* "a chance to dismount" but also *nbros-pai thabs* "a chance to escape," not only *dmyal-bar n̄gro-ñen* "the danger of going to hell" but also *srog-la bar-tshad byuñ-bai ñen* "the danger of there occurring a threat to your life," not only *gsod-grabs* "preparation for slaughter" but also *n̄gro-bai grabs* "preparation for leaving." In such cases we have what can be called QUASI-NOMINALIZERS—that is, what are still clearly nominals caught in the process of becoming nominalizers.

¹¹ Perhaps the least marked use of a nominalizer is where a verb is treated as a nominal-like object for purposes of metalinguistic citation: just as speakers of English cite verbs with the nominalizer *to*, and thus speak of "the verb *to go*," the Tibetans invariably cite verbs with the nominalizer *-pa*, and thus speak of "the verb *n̄gro-ba*." This is the source of the peculiar habit of listing verbs in Tibetan dictionaries as nominals: a typical doubly nominalized entry would read, for example, "*n̄gro-ba, to go*." Matisoff has noted that, as a general rule of thumb, applicable throughout the Tibeto-Burman family, whenever one discovers the particle used in verb citation, such as *-pa* in Tibetan, one can be sure of having discovered the most important nominalizer in the language.

nominals expressing some aspect of the patient of the underlying proposition: for example, from *rgyal-pos bgegs-la mda-Ø rgyag* "The king shot an arrow at the demon," we might find *rgyal-pos bgegs-la mda-Ø rgyag-go-tṣog* "all the arrows the king shot at the demon," *rgyal-pos bgegs-la mda-Ø rgyag-nphro* "the unused portion of the arrows the king shot at the demon," and so on. We will call these PATIENT-CENTERED NOMINALIZERS. Patient-centered nominalizers may seem unusual to a native speaker of English; they are, however, very common in Tibetan.

2.1.1. Patient-centered nominalizers

2.1.1.1. The nominalizer *-rgyu* "PATIENT OF PROPOSITION"

The nominalizer *-rgyu* "PATIENT OF PROPOSITION"—apparently related to the noun *rgyu* "matter, substance"—is the most general and semantically neutral of the patient-centered nominalizers. It is interesting, therefore, to compare it with *-pa*, the most general of the proposition-centered nominalizers—for example, *khrom-la khyag-pa-Ø ntshoñ* "They are selling ice in the market," *khrom-la khyag-pa-Ø ntshoñ-ba* "the selling of ice in the market," *khrom-la khyag-pa-Ø ntshoñ-rgyu* "ice for sale in the market," and thus *khrom-la khyag-pa-Ø ntshoñ-ba ndug-gam* "Are they selling ice in the market?" but *khrom-la khyag-pa-Ø ntshoñ-rgyu ndug-gam* "Is there ice for sale in the market?" or *kha-tshems-Ø bzag* "I have left a last testament," *kha-tshems-Ø bzag-pa* "my leaving of a last testament," *kha-tshems-Ø bzag-rgyu* "a last testament to leave," and thus *kha-tshems-Ø bzag-pa med* "I have not left a last testament" but *kha-tshems-Ø bzag-rgyu med* "I do not have a last testament to leave."

In propositions with the equative verb *yin*, the nominalizer *-rgyu* forms what we can call QUASI-RELATIVE constructions, parallel to the relative constructions formed with the proposition-centered nominalizer *-pa*—thus, for example, *bla-ma oñ* "The lama comes," *bla-ma oñ-ba* "the lama who comes," *bla-ma oñ-rgyu* "the lama to come," and thus *bla-ma oñ-ba yin* "The lama is/has come" but *bla-ma oñ-rgyu yin* "The lama is to come," or, similarly, *dpe-tsha ñas khyod-la gtoñ* "I am sending you a book," *dpe-tsha ñas khyod-la gtoñ-ba* "a book which I send you," *dpe-tsha ñas khyod-la gtoñ-rgyu* "a book for me to send you," and thus *dpe-tsha ñas khyod-la gtoñ-ba yin* "A book is being/has been sent you" but *dpe-tsha ñas khyod-la gtoñ-rgyu yin* "I am to send you

a book." Such constructions with *-rgyu* connote both futurity and obligation.¹²

Where the patient participant in the proposition nominalized by *-rgyu* is recoverable, either from context or from general knowledge, it may, of course, be omitted, leaving a quasi-headless quasi-relative construction. Such constructions with *-rgyu* are used, like their headless relative counterparts with *-Pa*, to make statements about things in general—for example, *ñā-la dgos* "I need (something)" *ñā-la dgos-rgyu* "(something) for me to need" *ñā-la dgos-rgyu tshuñ* "My needs are few," *smra* "He says (something)" *smra-rgyu* "(something) for him to say" *smra-rgyu ma-byuñ* "There was nothing for him to say," *lab* "You say (something)" *lab-rgyu* "(something) for you to say" *khyod-la gañ lab-rgyu yod* "What do you have to say?" *khyod-la lab-rgyu yod-dam* "Do you have anything to say?"

2.1.1.2. The nominalizers -o-tšog/-dgu/-tshad "ALL PATIENTS OF PROPOSITION"

The patient-centered nominalizer *-o-tšog* "ALL PATIENTS OF PROPOSITION" is closely related to the archaic plural *o-tšog*~*tšhog*, as in *lhao-tšog* "gods." The nominalizer *-o-tšog* first appears in the translation literature—for example, from the Tibetan translation of the *Karmasataka*, *bu-dañ bu-mo btsao-tšog ntšhi-bar ngjur* "All the sons and daughters she bears will die" (with *bu-dañ bu-mo btsao-tšog* "all the sons and daughters she bears" < *bu-dañ bu-mo btsa* "She bears sons and daughters"), *de-nas dei khyim-bdag-pai gos-dañ rgyan bskon-no-tšog mi-snañ-bar gyur* "Thereupon all his householder clothes and ornaments he had put on disappeared" (with *dei khyim-bdag-pai gos-dañ rgyan bskon-no-tšog* "all his householder clothes and ornaments he

¹² We can here note an interesting fact of word order. Given, say, *ñas dpe-tšha de khyod-la gioñ* "I am sending you that book," a relative construction formed with *-Pa* and with *dpe-tšha* "book" as its head must read *dpe-tšha* [*(ñas dpe-tšha khyod-la gioñ)-ba*] *de* "that book which I am sending you," while the quasi-relative formed with *-rgyu* is under no such constraint—thus either *ñas dpe-tšha de khyod-la gioñ-rgyu* or *dpe-tšha de ñas khyod-la gioñ-rgyu* "that book for me to send you." And sometimes—very rarely, I think—in analogy with these quasi-relatives, we find relative constructions with what appear to be misplaced heads: thus we would find, for example, instead of *dpe-tšha* [*(bla-mas dpe-tšha nkhyer)-ba*] *de* "that book which the lama is carrying," the word order [*(bla-mas dpe-tšha nkhyer)-ba*] *de*, by analogy with, say, *bla-mas dpe-tšha de nkhyer-rgyu* "that book for the lama to carry."

put on" < *dei khyim-bdag-pai gos-dāñ rgyan bskon* "He put on his householder clothes and ornaments"), *ñin-tsig bžin-du ri-dags bzañ-ño-tṣog bsad* "Every day he killed all the deer who were good" (with *ri-dags bzañ-ño-tṣog* "all the deer who were good" < *ri-dags bzañ* "The deer were good"), *kye-ma ryal-po tshen-po mam-thos-kyi bu gnod-sbyin tshé-bar grags-so-tṣog-dāñ lhan-tṣig-tu ña blta-bai phyir oñ-na* "Oh, if only the great king Kubera, together with all the yakṣas famed as great, came to see me!" (with *gnod-sbyin tshé-bar grags-so-tṣog* "all the yakṣas who were famed as great" < *gnod-sbyin tshé-bar grags* "The yakṣas were famed as great"). And note this quasi-headless construction—*dus-gsum ryal-ba yin-no-tṣog tṣig-tṣar ndus* "All who were the Buddhas of the three times gathered together," with *dus-gsum ryal-ba yin-no-tṣog* "all those who are Buddhas of the three times" < *dus-gsum ryal-ba yin* "(Some beings) are Buddhas of the three times."

We also find the nominalizer *-dgu*, related both to the archaic selector *-dgu*, as in *lha-dgu* "the many gods," and to the numeral *dgu* "nine," and the nominalizer *-tshad*, apparently related to the noun *tshad* "measure," both of which are used in the same way as *-o-tṣog* "ALL PATIENTS OF PROPOSITION"—thus, for example, *ndod-dgu* "all one wants," *ñan-dgu* "everything which is bad," *snañ-tshad* "all that happens," *tshogs-tshad* "everyone who gathered together," *ndir ldom-bu-ba byuñ-tshad* "all the beggars who appeared here." Note too the hybrid form *-dgu-tṣog* in this passage from the biography of Mi-la ras-pa—*gser gyu-dāñ mdzo rta sogs nor yod-dgu-tṣog nbul-bar khyer-nas nyon-gyin yod* "He is coming, bringing all the wealth he has—gold and turquoise, yaks and horses, and all—to give you."

2.1.1.3. *The nominalizer -Nphro "REMAINDER OF PATIENT OF PROPOSITION"*

The patient-centered nominalizer *-nphro* (sometimes *-nphros*) "REMAINDER OF PATIENT OF PROPOSITION" is apparently related to the verb *NPHRO* "proceed, spread, continue." A nominal in *-nphro* denotes a remaining or uncompleted or leftover portion of the patient participant in the nominalized proposition.¹³ We find, for example, *khyod-rañ-gi tshā thuñ* "You drank your tea"

¹³ Note, in the following examples, that the verb in the matrix proposition clearly refers to the PATIENT in the embedded proposition and not to the proposition as a whole—thus, for example, *Dža thuñ-nphros thuñ* "I drank the rest of THE TEA you were drinking," *YI-GE nbi-nphros mthoñ* "I saw an uncompleted LETTER someone was writing." There are, however,

khyod-rañ-gi tsha thuñ-nphros "the rest of the tea of yours you were drinking"
ñas khyod-rañ-gi tsha thuñ-nphros ndi thuñ-pa yin "I drank the rest of the tea
 you were drinking," *yi-ge nbri* "(Someone) is writing a letter" *yi-ge nbri-nphros*
 "part of a letter that someone is writing" *ñas tṣog-tsei gañ-la yi-ge nbri-nphros*
gtšig mhoñ byuñ "It happened that I saw a half-finished letter on the table;"
khoñ-gi khru slog "He was ploughing his earth" *khoñ-gi khru slog-nphro*
 "leftover part of the earth he was ploughing" *ñas kyañ khoñ-gi khru slog-nphro*
ndi go-tshod-tṣig byed "And I finished off the rest of this earth of his he was
 ploughing," *tshos bsgyur* "They were translating the dharma" *tshos bsgyur-nphro*
 "the remainder of the dharma they were translating" *tshos bsgyur-nphro-mams bskyur*
 "They put aside the remainder of the dharma they were translating." Here, too, we find quasi-headless constructions—for example, referring to the pulse, *nphar-nphro tshad* "What remained of that which throbs came to an end."

2.1.2. Proposition-centered nominalizers

2.1.2.1. The nominalizer *-pa*

The single most important nominalizer in the classical language is the proposition-centered nominalizer *-pa*, which becomes *-pa* after preceding final *-g*, *-d*, *-n*, *-b*, *-m*, and *-s*, and becomes *-ba* after preceding final *-ñ*, *-r*, *-l*, and open syllables.¹⁴ The general nominalizer *-pa* signals only that the entire proposition is functioning as a nominal, and contributes nothing further to the

a few instances where this interpretation does not seem to hold—for example, *ndžig-nphro btšad* "They stopped the rest of the destruction," *mkhar-gyi rtsig-nphro žog* "Put aside what is left of your building of the tower."

¹⁴ In the epic of Ge-sar we find a nominalizer *-le* used in several songs in a way entirely parallel to that of the nominalizer *-pa* found elsewhere. There is every reason to believe that this *-le* is a Khams dialect variant for *-pa*; note the following examples—*gar-byuñ med-pai bla-ma-tig mhoñ-na dad-pa oñ-LE-tig mdžal-na dañ-ba ndren-LE-tig gsuñ thos-pa-tsam-gyis grol-LE-tig* "a lama who came out of nowhere; through whom, if you see him, faith arises; who, if you meet him, brings forth devotion; by whom, by just hearing him speak, you are liberated," *gal-tšhen don-la mñags-LE yin, ma-bsdad gyog-po oñ-LE yin* "I have been sent on a matter of great importance; your servant has come without delay," *gugz-la bzañ-flan med-LE dgos, boñ-la riñ-thuñ med-LE dgos, rgyu-la phyug-dbul med-LE dgos* "As for form, you should make no distinction of beauty; as for size, you should make no distinction of height; as for substance, you should make no distinction of wealth."

reading of the proposition—thus, for example, *mtho-ris-la dge-sloñ-ø skye* “The monk is born in heaven” *mtho-ris-la dge-sloñ-ø skye ба* “the birth of the monk in heaven,” *sañs-rgyas-kyis tshos-ø bśad* “The Buddha taught the dharma” *sañs-rgyas-kyis tshos-ø bśad-pa* “the teaching of the dharma by the Buddha,” *dge-sloñ-gis sañs-rgyas-la mišod-pa-ø nbul* “The monk gives offerings to the Buddha” *dge-sloñ-gis sañs-rgyas-la mišod-pa-ø nbul-ba* “the giving of offerings to the Buddha by the monk.”

2.1.2.2. The nominalizer -sa “PLACE WHERE PROPOSITION”

The proposition-centered nominalizer *-sa* “PLACE WHERE PROPOSITION” is clearly related to—but is not the same as—the noun *sa* “earth, land, place.” It is, next to *-pa*, one of the most commonly encountered of the nominalizers; as illustration, note, for example, *bla-ma ñu* “The lama weeps” *bla-ma ñu-sa* “the place where the lama weeps,” *sañs-rgyas-kyis tshos bśad* “The Buddha taught the dharma” *sañs-rgyas-kyis tshos bśad-sa* “the place where the Buddha taught the dharma.”

Such nominals in *-sa* frequently function as heads of nominal phrases within source or locus participants—for example, *mi gžan-gyis mthoñ-sa-la dge-sloñ-gis tshos bśad* “The monk taught the dharma where others could see him,” where the locus participant *mi gžan-gyis mthoñ-sa* “place where other people see” is a nominalization of the proposition *mi gžan-gyis mthoñ* “Other people see (something).” Mi-la similarly nominalizes the proposition *ñas phyag-btsal* “I bowed down” when he says *ñas phyag-btsal-sa de-la phyis phyag-ntshal sgañ-du grags* “That place where I bowed down—it later became known as Bowing Down Ridge.” We find the proposition *señ-ges mišoñs* “The lion leaps” nominalized in the proverb *señ-ges mišoñs-sa-la was mišoñs rked-pa ntshag* “The fox leaps where the lion leaps—and breaks his neck.”¹⁵

The proposition-centered nominalizer *-sa* is also found, combined with the

¹⁵ Kvaerne has published a Tibetan map which purports to show the location of various events in the life of the epic hero Ge-sar. The map contains such notations as *ge-sar-gyis mu-stegs-la nüa rgyag-sa* “the place where Ge-sar shot an arrow at the demon,” *mkhan-po gžon-pa bžugs-sa* “the place where the young abbot stayed,” *bduud khe-tše ri-lu btul-sa* “The place where the demon Khe-tše ri-lu was conquered,” *khro-grum-gyis ge-sar-la dug ndren-sa* “the place where Khro-glum gave poison to Ge-sar,” *nkhuñ-sai pho-brāñ* “the palace where (Ge-sar) was born.”

verb *med* < *ma-YOD “be absent,” with the broader sense “occasion, opportunity, possibility”—thus *-sa med* “There is no way for PROPOSITION to happen.” For example, we find *gžan-du ngro* “He goes elsewhere” and thus *gžan-du ngro-sa med* “He has nowhere else to go,” *ñā gžan-la zer* “I speak to others” and thus *ñā gžan-la zer-sa med* “I have no one else to turn to,” *lus-la reg* “I touch his body” and thus *lus-la reg-sa med* “There’s no way I can get near him,” *nor-gyis blu* “One ransoms with money” and thus *nor-gyis blu-sa med* “You can’t buy yourself out of this.”

2.1.2.3. The nominalizer -gros “HELP WITH PROPOSITION”

The proposition-centered nominalizer *-gros* “HELP WITH PROPOSITION” is clearly related to—but is not the same as—the noun *gros* “friend.”¹⁶ This nominalizer is often found in elegant or polite commands: the proposition expressing the requested action is nominalized with *-gros* “HELP WITH PROPOSITION” and used as the patient of the imperative stem of an elegant or honorific verb—for example, the imperative stem *mdzod* of the honorific verb *MDZAD* “do,” or the (irregular) imperative stem *gyis* of the elegant verb *BGYI* “do.” Thus, for example, Mar-pa’s wife Bdag-med-ma asks her husband’s disciples *bla-ma rñog-pa nkhor-btšas-kyis ñai žu-ba nbul-gros mdzod-tsig* “Let lama Rñog-pa and his disciples help me make my request!” and Mar-pa says elegantly to Mi-la *dar-ma mdo-sde nbogs-pai mkhar-žig tsig-gros gyis* “Give a hand building a tower I can give to Dar-ma mdo-sde.”

2.1.2.4. The nominalizers -mkhan/-mi “PERSON INVOLVED IN PROPOSITION”

The proposition-centered nominalizer *-mkhan* “PERSON INVOLVED IN PROPOSITION” is clearly related to the syllabic formative *-mkhan* “SKILLED IN,” which is suffixed to nouns.¹⁷ The nominalizer *-mkhan*, on the other hand,

¹⁶ The nominalizer *-gros* is, perhaps, more properly written *-gros*. As early as in the Pad-ma thañ-yig we find the alternative forms *-ros* attested; note too the New Tibetan nominalizer *-ro* “HELP WITH PROPOSITION,” used with such elegant or honorific verbs as *tsh* “do” and *nab* “bestow”—for example, New Tibetan (Lhasa) *ñala lapro tsh <ñala lab-rogs gyis>* “Please tell me,” *ñala suñro nab <ñala gsuñ-rogs gnab>* “Please tell me (honorific).”

¹⁷ Note, for example, such collocations as *siñ* “wood” *siñ-mkhan* “carpenter,” *lam* “path”

is suffixed to—and makes a nominal from—entire propositions—for example, *o-dod byas-kyañ oñ-mkhan med* “Though I cried for help, there was no one who came.” Thus, too, we find, in the biography of Mi-la ras-pa by Gtsañ-smyon he-ru-ka, *rñog-ston tshos-r dor zer-bai ma-bišol-ba byed-mkhan khyod* “you who do what you are not told to do named Rñog-ston tshos-r dor.” Similarly for *-mi*, as in the following from the epic of Ge-sar—*?a-rog zer-mi pho-rog yin, ka-kwi lan byed-mi brag-tshar yin, lus ngro-rog byed-mi grib-ma yin* “The one who calls me old friend is the crow; the one who answers my cry is the echo; the one who accompanies my body is my shadow.”¹⁸

2.2. NOMINALIZED PROPOSITIONS AS HEADS

A proposition that has been nominalized with *-pa* can function—just like any nominal—either as the nominal head or as the modifier of the head. When a nominalized proposition is the head of a nominal phrase, it can—just like any nominal—be modified by further nominals, specified by determiners and quantifiers, and so on. For example, from the nominalization *dge-sloñ-gis sañs-rgyas-la mišhod-pa-Ø nbul-ba* “the giving of offerings to the Buddha by the monk,” we might find [*dge-sloñ-gis sañs-rgyas-la mišhod-pa-Ø nbul-ba*] *NDI* “THIS giving of offerings to the Buddha by the monk,” [*dge-sloñ-gis sañs-rgyas-la mišhod-pa-Ø nbul-ba*] *NDI-RNAMS* “THESE givings of offerings to the Buddha by the monk,” [*dge-sloñ-gis sañs-rgyas-la mišhod-pa-Ø nbul-ba*] *TSHEN-PO* “THE GREAT givings of offerings to the Buddha by the monk,” [*dge-sloñ-gis sañs-rgyas-la mišhod-pa-Ø nbul-ba*] *TSHEN-PO NDI-DAG KUN* “ALL THESE GREAT givings of offerings to the Buddha by the monk.”

Such a nominal phrase may then, in turn, play any participant role in the proposition—for example, the PATIENT, as in [*sañs-rgyas-kyis tshos-Ø bśad-pa]-Ø sems-tshen-la phan* “The teaching of dharma by the Buddha brings benefit to beings,” *dge-sloñ-gis [sañs-rgyas-kyis tshos-Ø bśad-pa]-Ø thos* “The monk heard

lam-mkhan “guide,” *bzo* “handicraft” *bzo-mkhan* “craftsman.” We also find lexicalized or semi-lexicalized collocations of *-mkhan* with a preceding verb stem, usually present tense—for example, *SRUÑ* “protect” *srüñ-mkhan* “guardian,” *RTSAM* “compose, write” *risom-mkhan* “author,” *SAD* “kill” *gsod-mkhan* “murderer,” *SAM* “think” *sems-mkhan* “intelligent person,” *DAG* “bind” *ndogs-mkhan* “one who binds.” These are all apparently nominalizations of propositions which have been reduced to the event alone, without participants.

¹⁸ Note the play on words—*?a-rog* “old friend,” *pho-rog* “crow,” *ngro-rog* “companion.”

the teaching of dharma by the Buddha," or [*sañś-rgyas-kyis tshos-Ø bśad-pa]-Ø bskal-pai gtsug-rgyan yin "The teaching of dharma by the Buddha is the diadem of the age"; the AGENCY, as in [*sañś-rgyas-kyis tshos-Ø bśad-pa]-KYIS sems-tśan thams-tśad-Ø sgrol "The teaching of dharma by the Buddha saves all beings" or [*sañś-rgyas-kyis tshos-Ø bśad-pa]-KYIS aße-sloñ-Ø mya-ñan-las ndas "The monk entered nirvana because of the teaching of dharma by the Buddha"; the LOCUS, as in [*sañś-rgyas-kyis tshos-Ø bśad-pa]-LA sems-tśan thams-tśad-Ø dga "All beings rejoice in the teaching of dharma by the Buddha"; the SOURCE, as in [*sañś-rgyas-kyis tshos-Ø bśad-pa]-NAS sems-tśan thams-tśad-Ø ngrol "All beings are saved through the teaching of dharma by the Buddha"; or the ACCOMPANIMENT, as in [*sañś-rgyas-kyis tshos-Ø bśad-pa]-DAÑ mu-stegs-pa-Ø ngal "Heretics oppose the teaching of dharma by the Buddha."******

2.2.1. Multiple embedding

A proposition can contain, as one of its participants, a nominalized proposition which itself contains a nominalized proposition as one of its participants, and so on; for example, note the following sequence of propositions—*bla-mas tshos bśad* “The lama taught the dharma,” [*bla-mas tshos-bśad-pa]-NAS sems-tśan grol* “Beings were saved through the teaching of dharma by the lama,” [[*bla-mas tshos bśad-pa]-nas sems-tśan grol-ba]-LA rgyal-po dga “The king rejoiced at the saving of beings through the teaching of dharma by the lama,” [[[*bla-mas tshos bśad-pa]-nas sems-tśan grol-ba]-la rgyal-po dga-ba]-Ø blon-pos mthoñ “The minister saw the rejoicing of the king at the saving of beings through the teaching of dharma by the lama,” [[[*bla-mas tshos bśad-pa]-nas sems-tśan grol-ba]-la rgyal-po dga-ba]-Ø blon-pos mthoñ-ba]-s mtshod-pa phul “The minister gave offerings because of his seeing the rejoicing of the king at the saving of beings through the teaching of dharma by the lama,” [[[*[bla-mas tshos bśad-pa]-nas sems-tśan grol-ba]-la rgyal-po dga-ba]-Ø blon-pos mthoñ-ba]-s mtshod-pa phul-ba]-DAÑ rgyal-mo ñan-pa nkhon “The wicked queen was distressed at the giving of offerings by the minister because of his seeing the rejoicing of the king at the saving of beings through the teaching of dharma by the lama.”****

When an appropriately role-marked nominalized proposition is in the setting slot of the matrix, such sequences can be given a paratactic reading as well—thus, for example, *bla-mas tshos bśad-pa-NAS* “From the teaching of the dharma by the lama/After the lama taught the dharma/The lama taught the

dharma, and then . . ." *dge-sloñ-gis tshos thos-pa-KYIS* "By the hearing of the dharma by the monk/Because the monk heard the dharma/The monk heard the dharma, and so . . ." *rgyal-po-s dgra-ø mthoñ-ba-LA* "At the seeing of the enemy by the king/When the king saw the enemy/The king saw the enemy, and . . ." Such constructions are processed by the Tibetan reader, I believe, as at least quasi-paratactic rather than hypotactic, despite the fact that structurally they can be embedded several layers deep; and they are thus read—and written—as if they were parallel with conjunctions—for example, in the *Mkhas-pai mgul-rgyan mu-tig phreñ-mdzes* by the grammarian Si-tu mahāpañdita, the paraphrase coordination *gsal-žiñ dwañs-LA dri-ma med* "clear AND pure AND unsullied," or, in the biography of Mi-la ras-pa by Gtsañ-smyon he-ru-ka, the simultaneous coordinations *tshos-la gtad-NAS yoñs* "He sought the dharma AND came," *khru rem-NAS slogan* "I exerted myself AND ploughed."¹⁹

Nominalized propositions in the setting slot can be marked as the medium, locus, source, or accompaniment of the event in the matrix proposition, or as an adverb which modifies that event; they can be marked as either the *n*-locus or source or the *l*-locus or source. The role particles marking such nominalized propositions then carry much of the same meaning as when marking a simple nominal—thus PROPOSITION-*Pa-KYIS* "by PROPOSITION/because of PROPOSITION/PROPOSITION and so . . ." PROPOSITION-*Pa-la* "at PROPOSITION/upon PROPOSITION/PROPOSITION and then . . ." PROPOSITION-*Pa-na* "in PROPOSITION/while PROPOSITION/if PROPOSITION . . ." PROPOSITION-*Pa-las* "out of PROPOSITION/because of PROPOSITION . . ." PROPOSITION-*Pa-nas* "from PROPOSITION/through PROPOSITION/PROPOSITION and then . . ." PROPOSITION-*Pa-dañ* "with PROPOSITION/no sooner than PROPOSITION . . ."

¹⁹ These constructions, with role-marked nominalized propositions in the setting slot, are extremely common in the classical language; in fact, they are probably found more often than conjunctions. These constructions are sometimes called "continuatives," and are treated—and translated into English—rather as if they were Sanskrit gerunds—for example, from the *Vajracchedikā Prajñāpāramitā*, Sanskrit *catuspādikām api gāthām udgrhya* Tibetan *tshig bzi-pai tshigs-su btšad-pa-tsam bruñ-nas* "Having grasped just this four-line stanza . . ." or, from the *Abhidharmakośabhäṣya* by Vasubandhu, Sanskrit *jīvita-pariśkāram darvā* Tibetan *dge-sbyoñ-gi nsho-bai yo-byad gañ yañ ruñ-ba phul-nas* "Having given the requisites which are appropriate to maintain a monk . . ." But I am not sure that this is always a helpful characterization of their structure.

2.2.2. The omission of *-pa*

The nominalizer *-Pa* may be—and not infrequently is—omitted when it occurs between the tense stem of a verb and a bound role particle.²⁰ In the archaic Central Asian manuscripts, we find *-Pa* retained in this position probably more frequently than we do in the later texts, although usage is certainly far from consistent—for example, *sta-re phud-tšig bhab-PA-LA g.yu rgal-te mtšis . . . sta-re pud-tšig bhab-NA g.yu rgal-te mtšis* “He struck the first time with the axe, AND THEN G.yu crossed over . . . WHEN he struck the first time with the axe, G.yu crossed over,” *mi khyod sgrin-ma ndod-PA-NA kha-rog-par ndug-NA bzañ-o* “WHEN/IF you, man, desire prudence, it is good WHEN/IF you stay silent,” *drug tšhen-poi rgyal-pos lo bdun-tšu-rtsa gñis dar-to, lo bdun-tšu-rtsa gñis dar-PA-DAN, ñi-ma šar-logs-kyi dru-gu-dañ, ñi-ma nub-pa logs-gyi dru-gu gñis nthabs* “The king of the Great Drug flourished for seventy-two years; AS SOON AS he had flourished for seventy-two years, the Little Drug of the quarter where the sun sets fought with the Little Drug of the quarter where the sun rises.” In the classical texts, as a general rule, *-Pa* is omitted before *-nas*, often omitted before *-la* and *-na*, often retained before *-las*, and retained before *-dañ* and *-kyis*.

*I heard words
and words full*

*of holes
aching. Speech
is a mouth.*

—Robert Creeley,
The Language

For example, note the use of these constructions, parallel with conjunctions, in the following from the biography of Mi-la ras-pa by Gtsañ-smyon he-ru-ka:

²⁰ Although the unstressed particle *-Pa* appears often dispensable—for example, when new disyllabic stress groups are formed—it is probably safe to say in this regard that we generally find, say, both *Si-ba-la* and *Si-la* “died and . . .” but we find only *Si-ba-nams* “ones who died” and not *?Si-nams*.

*de-nas yi-ge žañ-poi lag-tu bžag-NAS kun-gvis mthoñ-bar byas-PAS,
khoñ-mams-kyis gros ngyur-TE, lag-mthui bsam-sbyor bor-NAS, žiñ
or-ma gru-gsum yañ ?a-khui lag-nas blañs-TE ?a-ma-la sprad
ndug*

Then we put the letter in the hand of my maternal uncle, AND he showed it to everybody, AND SO they took counsel, AND forsook their plan of revenge, AND took the field Or-ma Triangle from the hands of my paternal uncle, AND gave it to my mother.

*ña de dus ?a-ma-dañ lan-tšig phrad sñam-PA-LAS, dgras ndžigs-TE
myur-du bros-TE gña-nam bskor phyin-PAS, rkañ-pa-la khyis phug-
STE ndzom-sar dus-la ma-slebs*

I then thought, "I will meet my mother one more time," AND was afraid of my enemies AND quickly ran away AND circled around Gña-nam AND a dog bit me on the leg AND I did not arrive on time at the meeting place.

*gžon-pa-mams na-re, thos-pa-dga kho yin thag-tšod, khos u-tšag
mthoñ-ba med-PAS yul-nas dmag gyabs-TE ma-bsad-NA, ndis da-
duñ yul ndi phuñ-du ndžug zer-žiñ, log soñ-BA-LA, ñai grogs-po
na-re, khyod-rañ sñon-la soñ, ñas khyod-rañ yin-pa-ltar byas-TE
sñiñ-tshim btab-LA oñ-gis zer*

The younger ones said, "He is Thos-pa dga, certainly. He has not seen us, SO IF we do not summon a host from the village AND kill him, this one will ruin our village even more," AND they turned back, AND my friend said, "You go on ahead. I promise I will come WHEN I have acted as if I am you AND had some fun."

Gtsañ-smyon he-ru-ka often uses nominalized propositions marked with the accompaniment particle *-dañ* in the setting slot to indicate an immediate succession of events—for example, *ban-dhe de log-soñ-ba-DAÑ, tshañ lhag-ma lus-par btuñs* "As soon as that monk went back, I drank the rest of the beer," *phyed-tsam loñs-pa-DAÑ bla-ma byon* "As soon as I had finished just half of it, the lama came," *mthu bsgrub-nas žag bdun soñ-ba-DAÑ bla-ma byon* "I cast the spell, and, AS SOON AS seven days had passed, the lama came,"

phyed-tsam loñs-PA-DAÑ yañ kho-rañ bśig-tu blśug-NAS sa-rdo-mams rañ-gnas-su skyel-du ndžug-gin ndug, ndi yañ bśig yoñ mi-bśig-NA bsruñ-bar tshog bśig mi-bśig bltao zer-BA-LA, ma-bśig-par mkhar-las nar-mar byas-PAS, bdun thog-tu soñ-BA-DAÑ ñai rkeda-pa-lañañ sgal-pa-žig byuñ

They said, “As SOON AS it is just half done he has him tear it down AND has him take the earth and rocks to their original place. This one too will be torn down. It will be enough for us to stop him WHEN/IF it is not torn down. We will see if it is torn down or not,” AND, not tearing it down, I worked on the tower without stopping, AND, AS SOON AS I reached the seventh story, a sore developed on my back.

2.2.3. Propositional adverbs

Nominalized propositions marked with the adverb particle *-tu* may be found, often in the setting slot of the matrix proposition, serving to modify the matrix event in terms of time, place, manner, or extent—for example, *lo mañ-po-žig ma-lon-par* “Before many years had passed . . .” *rgyal-po dug-gis bsad-sar* “At the place where the king had been poisoned . . .” *skad-tśig kyañ sdod-pai loñ med-par* “Without waiting even for a moment . . .” *dgon-pa de-dañ ñe-bar* “Near to that monastery . . .” Relator nouns are often found as the head of such propositional adverbs—for example, *sañs-rgyas-kyis tshos bśad-pai mthar* “After the Buddha had taught the dharma . . .” *bla-mas bgegs ma-btul-bai bar-du* “While the lama had not yet tamed the demon/Until the lama had tamed the demon . . .” *rgyal-po dgon-pa-la slebs-pai dus-su* “At the time the king arrived at the monastery . . .”

Thus, in the *Legs-par bśad-pa rin-po-tshai gter*, Sa-skya pañdita writes *rdže-bos nbañs-la mi-gnod-par, rig-pai las-kyis dpya-mams bsdu* “A lord should gather taxes in a wise way, without harming his subjects,” *rīa-la dbyug-gus ma-bsnun-par, de-srid gžan-dañ khyad tsi yod* “Without having hit the drum with a stick, how is it different from any other?” *yul gžan legs-par ma-brtags-par, sña-mai gnas ni dor mi-bya* “You should not abandon your former abode unless you have well examined the other place.” In the biography of Mi-la by Gtsañ-smyon he-ru-ka we find *ma-gsan-par bla-ma byon* “The lama left without listening,” *yum tsha-ba ndren-du byuñ* “My Lady appeared, bringing hot food,” *mkhar-las mdzad-don med-par mdzad, bśig-don med-par bśig-gin ndug* “He is building towers without any reason to build them, and destroying them

without any reason to destroy them," *bsam-pa gžan-gyis ma-tshod-par bla-ma-dañ mdžal-te žal mthoñ-ba-žig nam yoñ-na nam yoñ-na bsam-žiñ phyin* "Uninterrupted by any other thought, I went along thinking, When oh when will I meet the lama and see his face?" *tshe ndi don-du gñer-bai mi-dañ lab ma-byed-par sgrub-pa-la nburiñ-sig* "Without speaking to any person who is concerned with this life, apply yourself to meditation!" *ma-bšig-par mkhar-las nar-mar byas* "Not tearing it down, I worked on the tower unceasingly." And note these satiric verses, taken from a poem by Pad-ma dkar-po—*sdug-btsir-gyis bslab-sbyáñ-sig ma-dgos-par, blo mo-žiñ gsal-bai mkhas-par gyur* "Without any need for strenuous study, I have become a scholar with mind sharp and clear," *sdug-nkhurns-kyis sgo gsum ma-mñar-bar, grogs nphags-ma-mams dgyes-pai btsun-par gyur* "Without oppressing my senses with hardship, I have become a reverend pleasing to my friends the Noble Ladies."²¹

2.3. NOMINALIZED PROPOSITIONS AS MODIFIERS

A proposition that has been nominalized with *-pa* can function not only as the head of a nominal, as we have discussed, but also as the MODIFIER of the head. There are two syntactic constructions in which we find such a nominalized proposition acting as a modifier. First, in a RELATIVE construction, the nominalized proposition—here called a relative proposition—can modify any type of nominal head; and the relative proposition is processed as having within it an omitted participant which is in some sense identical with the nominal head it modifies: thus, for example, *sañs-rgyas mthoñ-bai dge-sloñ* "monk who saw the Buddha" is a relative construction. Second, in a COMPLEMENT construction, the nominalized proposition—here called a complement—can modify either verb or nominal heads, but only certain types of verbs and nominals; and the complement is not processed as having any omitted participant coreferential with the head it modifies: thus, for example, *dge-sloñ-gis sañs-rgyas mthoñ-bai nbras-bu* "result of the monk's seeing the Buddha" is a NOMINAL complement construction; and *dge-sloñ-gis sañs-rgyas mthoñ-bar ruñ* "It is proper for the monk to see the Buddha" is a VERB complement construction. This distinction is more easily pointed to than described; and the next several sections will try to make these syntactic constructions clear.

²¹ Pad-ma dkar-po offers his poem as *še-so sñam sbos-pa-tshoi ndžu-sman* "a laxative for such bloated thoughts" and as *khoñ bzañ-por grags-pa-tshoi bkru-sman* "soap for those famed as virtuous."

2.3.1. Relative constructions

What makes *sañś-rgyas mthoñ-bai dge-sloñ* "monk who saw the Buddha" a relative construction? The HEAD of the phrase is, clearly, *dge-sloñ* "monk." The MODIFIER of this head is *sañś-rgyas mthoñ-ba*, which is in turn a nominalization of the proposition *sañś-rgyas-Ø mthoñ* "(Someone) saw the Buddha," with the agency participant unspecified. That unspecified participant is then processed as coreferential with the head; in response to the question "WHO saw the Buddha?" the answer can only be "The monk did." The reconstruction of these relationships by the reader can be written as *[(dge-sloñ-gis sañś-rgyas-Ø mthoñ)-Pa]-KYi dge-sloñ* "monk who saw the Buddha," with the brackets identifying the embedded modifier and the strikeout indicating the deleted coreferent.²² It is the need for such processing that makes the nominalized proposition RELATIVE to its head.

Relative constructions are a characteristic and productive hypotactic device in the classical texts. Where a paratactic construction might read *sañś-rgyas dgon-pa-la bžugs-te, dge-sloñ-gis mthoñ-zün mišhod-pa phul* "The Buddha dwelt in the monastery AND a monk saw him AND he gave him offerings," a typically hypotactic construction would be *dge-sloñ [sañś-rgyas [dgon-pa-la bžugs-pa]-Ø mthoñ-ba]-s mišhod-pa-Ø phul* "The monk WHO saw the Buddha WHO was dwelling in the monastery gave him offerings." Such relative constructions occupy a central and distinctive place in Tibetan writing.

²² We will use this notation whenever we need to indicate that an embedded participant is coreferential with a participant in the matrix proposition—for example, *[(bla-ma-Ø bgegs-Ø btul)-ba]-i bla-ma* "lama who tamed the demon," *[(bla-ma-s bgegs-Ø btul)-ba]-i bgegs* "demon whom the lama tamed," *bla-ma-Ø [(bla-ma-s bgegs-Ø btul)-ba]-r oħs* "The lama came to tame the demon." In each of these cases, the embedded coreferent is deleted, along with its role particle, or replaced by a DUMMY, in the form of an indefinite determiner, whose only function is to carry the role particle of the deleted participant. The embedded proposition is always the one buried inside the brackets; the more brackets there are, the more deeply embedded the proposition. The nominal head is always coreferential with a participant in the embedded proposition just one layer beneath it—for example, *dge-sloñ [dge-sloñ sañś-rgyas [sañś-rgyas dgon-pa-la bžugs-pa]-Ø mthoñ-ba]-s mišhod-pa phul*, which becomes first *dge-sloñ [dge-sloñ sañś-rgyas [sañś-rgyas dgon-pa-la bžugs-pa]-Ø mthoñ-ba]-s mišhod-pa phul*, and then *dge-sloñ [dge-sloñ sañś-rgyas [sañś-rgyas dgon-pa-la bžugs-pa]-Ø mthoñ-ba]-s mišhod-pa phul* "The monk who saw the Buddha who was dwelling in the monastery gave him offerings."

2.3.1.1. *Discursus on English relativization*

To understand Tibetan relative constructions, it may be helpful to look briefly at relative constructions in English. The English proposition *The lawyer who wrote this book is handsome* is actually composed of two propositions that intersect upon the single coreferent *the lawyer*—that is, the main or MATRIX proposition *The lawyer is handsome*, and the embedded or MODIFYING proposition *The lawyer wrote this book*. The latter proposition is RELATIVIZED—that is, embedded in the main proposition as the modifier of a nominal head—by the following three steps:

- (1) the modifying proposition is inserted in the matrix proposition immediately following the coreferential nominal head it will modify—thus *The lawyer [the lawyer wrote this book] is handsome*,
- (2) the coreferential participant is deleted from the modifying proposition—thus *The lawyer [the lawyer wrote this book] is handsome*, and
- (3) the appropriate relative pronoun replaces the deleted coreferential participant—thus *The lawyer [WHO wrote this book] is handsome*.

Now the nominal head in the matrix proposition can have any participant role in that proposition: it can be the subject, as in the example above, or the object, as in *I am reading the book which refutes Darwin*, which, again, is built from two propositions that intersect upon the single coreferent *the book*—that is, the main or matrix proposition *I am reading the book*, and the embedded or modifying proposition *The book refutes Darwin*. Again, the latter proposition is relativized in three steps:

- (1) *I am reading the book [the book refutes Darwin]*,
- (2) *I am reading the book [the book refutes Darwin]*,
- (3) *I am reading the book [WHICH refutes Darwin]*.

Similarly, the deleted participant in the MODIFYING proposition can have any participant role in that proposition: it can be the subject, as in the example

above, or the object, as in *I am reading the book which you recommended*, which, again, is built from two propositions that intersect upon the single coreferent *the book*—that is, the main or matrix proposition *I am reading the book*, and the embedded or modifying proposition *You recommended the book*. In English, however, relativizing the latter proposition requires an extra step: the embedded coreferent is moved to the left-hand end of its proposition before being deleted: thus

- (1) *I am reading the book [you recommended the book]*,
- (2) *I am reading the book [the book you recommended]*,
- (3) *I am reading the book [the-book you recommended]*,
- (4) *I am reading the book [WHICH you recommended]*.

The deleted participant in the modifying proposition can have still other roles in that proposition;²³ or one relative can be embedded within another, as

²³ For example, it can be the location, as in *The hotel in which he stayed was dismal*, which is built from the two propositions *The hotel was dismal* and *He stayed in the hotel*, as follows:

- (1) *The hotel [he stayed in the hotel] was dismal*,
- (2) *The hotel [in the hotel he stayed] was dismal*,
- (3) *The hotel [in the hotel he stayed] was dismal*,
- (4) *The hotel [in WHICH he stayed] was dismal*.

Or the deleted participant in the modifying proposition can be the source participant, as in *They invaded the land from which he came*, again built from the two propositions *They invaded the land* and *He came from the land*, as follows:

- (1) *They invaded the land [he came from the land]*,
- (2) *They invaded the land [from the land he came]*,
- (3) *They invaded the land [from the land he came]*,
- (4) *They invaded the land [from WHICH he came]*.

in *I am reading the book which the man who works in the bookstore recommended*, as follows:

- (1) *I am reading the book [the man [the man works in the bookstore] recommended the book]*,
- (2) *I am reading the book [the book the man [the man works in the bookstore] recommended]*,
- (3) (a) *I am reading the book [the book the man [the man works in the bookstore] recommended]*,
- (b) *I am reading the book [the book the man [the man works in the bookstore] recommended]*,
- (4) (a) *I am reading the book [the book the man [WHO works in the bookstore] recommended]*,
- (b) *I am reading the book [WHICH the man [WHO works in the bookstore] recommended]*.

Relativization in English, of course, is more complicated than this: for example, relative pronouns are optional where the omitted participant in the modifying proposition is the object, as in *I am reading the book you recommended*, and we have not even mentioned such constructions as *They invaded the land he came from*. But I think this brief—and far from universally accepted—description may help to shed some light on the parallel Tibetan construction.

2.3.1.2. Relative propositions after the head

Any modifier of a nominal can, as we have seen, follow the head which it modifies—for example, *bla-ma tshen-po* “great lama,” *bla-ma mal-nbyor-pa* “lama who is a yogin.” Similarly, a relative proposition can follow the head which it modifies—for example, *sañs-rgyas dgon-pa-la bžugs-pa* “Buddha who dwells in the monastery,” *bgegs bla-mas btul-ba* “demon which the lama tamed.”

The Tibetan proposition *sañs-rgyas dgon-pa-la bžugs-pas tshos bšad* “The

Buddha who dwells in the monastery taught the dharma" is actually composed of two propositions that intersect upon a single coreferent *sañṣ-rgyas* "Buddha"—that is, the main or MATRIX proposition *sañṣ-rgyas-kyis tshos bśad* "The Buddha taught the dharma," and the embedded or MODIFYING proposition *sañṣ-rgyas-θ dgon-pa-la bžugs* "The Buddha dwells in the monastery." The latter proposition is RELATIVIZED—that is, embedded in the main proposition as the modifier of a nominal head—in the following steps:

- (1) the modifying proposition is nominalized with the nominalizer *-pa*—thus *[(sañṣ-rgyas-θ dgon-pa-la bžugs)-Pa]*,
- (2) this nominalized proposition is inserted in the matrix proposition immediately following *sañṣ-rgyas*, the coreferential nominal head it will modify, and, as in any Tibetan nominal phrase, before the attached role particle—thus *sañṣ-rgyas [(sañṣ-rgyas-θ dgon-pa-la bžugs)-Pa]-kyis tshos bśad*, and
- (3) the coreferential participant, along with its attached role particle, is deleted from the modifying proposition—thus *sañṣ-rgyas [(sañṣ-rgyas-θ dgon-pa-la bžugs)-Pa]-kyis tshos bśad*.

Under the appropriate rules of inflectional morphology, this proposition then becomes *sañṣ-rgyas dgon-pa-la bžugs-pas tshos bśad* "The Buddha who dwells in the monastery taught the dharma."

The modified nominal head in the MATRIX proposition can have any participant role in that proposition: it can be the agency, as in the example above, or the patient, as in *dge-sloñ-gis sañṣ-rgyas tshos bśad-pa bstod* "The monk praised the Buddha who taught the dharma," which, again, is built from two propositions that intersect upon the single coreferent *sañṣ-rgyas* "Buddha"—that is, the main or matrix proposition *dge-sloñ-gis sañṣ-rgyas-θ bstod* "The monk praised the Buddha," and the embedded or modifying proposition *sañṣ-rgyas-kyis tshos bśad* "The Buddha taught the dharma." Again, the latter proposition is relativized in the following steps:

- (1) the modifying proposition is nominalized with the nominalizer *-pa*—thus *[(sañṣ-rgyas-kyis tshos bśad)-Pa]*,
- (2) this nominalized proposition is inserted in the matrix proposition immediately following *sañṣ-rgyas*, the coreferential nominal

head it will modify, and, as in any Tibetan nominal phrase, before the attached role particle—thus *dge-sloñ-gis sañs-rgyas* [(*sañs-rgyas-kyis tshos bśad*)-*Pa*]-Ø *bstod*, and

- (3) the coreferential participant, along with its attached role particle,²⁴ is deleted from the modifying proposition—thus *dge-sloñ-gis sañs-rgyas* [*(sañs-rgyas-kyis tshos bśad)*-*Pa*]-Ø *bstod*.

Under the appropriate rules of inflectional morphology, this then becomes *dge-sloñ-gis sañs-rgyas tshos bśad-pa bstod* “The monk praised the Buddha who taught the dharma.”

Similarly, the deleted participant in the MODIFYING proposition can have any participant role in that proposition: in the first example, above, the embedded *sañs-rgyas* “Buddha” was the patient of the intransitive verb *BZUGS* “dwell”; in the second example above, the embedded *sañs-rgyas* “Buddha” was the agency of the transitive verb *TŚAD* “teach.” Or the deleted participant in the modifying proposition can be the patient of a transitive verb, as in *dge-sloñ-gis tshos sañs-rgyas-kyis bśad-pa bstod* “The monk praised the dharma which the Buddha taught,” which, again, is built from two propositions that intersect upon the single coreferent *tshos* “dharma”—that is, the main or matrix proposition *dge-sloñ-gis tshos-Ø bstod* “The monk praised the dharma,” and the embedded or modifying proposition *sañs-rgyas-kyis tshos-Ø bśad* “The Buddha taught the dharma.” Again, the latter proposition is relativized in the following steps:

- (1) [*(sañs-rgyas-kyis tshos-Ø bśad)-Pa*],

²⁴ Actually, this step is better described in two steps. First, the coreferent nominal is deleted, leaving its role particle hanging in the air, as in *dge-sloñ* [(*dge-sloñ-Kyis miñhod-pa phul*)-*Pa*]-*Kyis sañs-rgyas miñhöñ* “The monk who gave offerings saw the Buddha.” Second, either of two steps may be taken. The proposition can be used as is, with the rules of inflectional morphology automatically deleting the hanging role particle, yielding *dge-sloñ miñhod-pa phul-ba-s sañs-rgyas miñhöñ* “The monk who gave offerings saw the Buddha”; or an indefinite determiner can be placed in the now empty slot as a dummy to carry the hanging role particle, as in *dge-sloñ* [*(GAñ-Kyis miñhod-pa phul)-Pa*]-*s sañs-rgyas miñhöñ*, which yields *dge-sloñ gañ-gis miñhod-pa phul-bas sañs-rgyas miñhöñ* “The monk, WHO_i gave offerings saw the Buddha.” These two steps have been collapsed in this portion of the text for clarity of exposition. Note the use of a subscript to identify the coreferent of the dummy role particle carrier.

- (2) *dge-sloñ-gis tshos [(sañs-rgyas-kyis tshos-Ø bšad)-Pa]-Ø bstod,*
- (3) *dge-sloñ-gis tshos [(sañs-rgyas-kyis tshos-Ø bšad)-Pa]-Ø bstod.*

Under the appropriate rules of inflectional morphology, this then becomes *dge-sloñ-gis tshos sañs-rgyas-kyis bšad-pa bstod* "The monk praised the dharma which the Buddha taught."²⁵

The deleted participant in the modifying proposition can have still other roles in that proposition: it can be the locus, as in *mal-nbyor-pa nags-tshal me-tog bkra-ba-la bzugs* "The yogin dwells in woods where flowers bloom," which is built from the two propositions *mal-nbyor-pa nags-tshal-la bzugs* "The yogin dwells in the woods" and *nags-tshal-la me-tog bkra* "Flowers bloom in the woods," as follows:

- (1) *[(nags-tshal-la me-tog bkra)-Pa],*
- (2) *mal-nbyor-pa nags-tshal [(nags-tshal-la me-tog bkra)-Pa]-la bzugs,*
- (3) *mal-nbyor-pa nags-tshal [(nags-tshal-la me-tog bkra)-Pa]-la bzugs,*

which becomes *mal-nbyor-pa nags-tshal me-tog bkra-ba-la bzugs* "The yogin dwells in woods in which flowers bloom."

Similarly, the deleted participant in the modifying proposition can be the source participant, as in *nam-mkha kha nbab-pa-la sprin nag-po nthibs* "Black clouds gather in the sky from which snow falls," which is built from the two propositions *nam-mkha-la sprin nag-po nthibs* "Black clouds gather in the sky" and *nam-mkha-las kha nbab* "Snow falls from the sky," as follows:

- (1) *[(nam-mkha-las kha nbab)-Pa],*
- (2) *nam-mkha [(nam-mkha-las kha nbab)-Pa]-la sprin nag-po nthibs,*
- (3) *nam-mkha [(nam-mkha-las kha nbab)-Pa]-la sprin nag-po nthibs,*

²⁵ It is of course possible to TRANSLATE such a relative construction, where the embedded coreferent is the patient of a transitive verb, with an English passive—thus, "The monk praised the dharma taught by the Buddha." This capacity of English does not teach anything about the structure of Tibetan.

which comes *nam-mkha kha nbab-pa-la sprin nag-po nthibs* "Black clouds gather. ie sky from which snow falls."

2.3.1.3. Relative propositions before the head

A modifier of a nominal can also precede, as an adnominal, the head which it modifies—for example, *dkar-poi phreñ-ba* "white rosary," *sñags-pai bla-ma* "lama who is a magician." Similarly, a relative proposition can precede, as an adnominal, the head which it modifies—for example, *dgon-pa-la bžugs-pai sañs-rgyas* "Buddha who dwells in the monastery," *bla-mas btul-bai bgegs* "demon which the lama tamed."

Such adnominal relatives are derived just as we have discussed above. For example, the proposition *dge-sloñ-gis dgon-pa-la bžugs-pai sañs-rgyas bstod* "The monk praised the Buddha who dwells in the monastery" is, again, built from two propositions that intersect upon the single coreferent *sañs-rgyas* "Buddha"—that is, the main or matrix proposition *dge-sloñ-gis sañs-rgyas-Ø bstod* "The monk praised the Buddha," and the embedded or modifying proposition *sañs-rgyas dgon-pa-la bžugs* "The Buddha dwells in the monastery." Here, though, the modifying proposition is inserted in the matrix BEFORE the head rather than after, and is marked with the adnominal particle, as follows:

- (1) the modifying proposition is nominalized with the nominalizer *-pa*—thus *[(sañs-rgyas-Ø dgon-pa-la bžugs)-Pa]*,
- (2) this nominalized proposition is inserted in the matrix proposition immediately before *sañs-rgyas*, the coreferential nominal head it will modify, and is marked with the adnominal particle *-kyi*—thus *dge-sloñ-gis [(sañs-rgyas-Ø dgon-pa-la bžugs)-Pa]-Kyi sañs-rgyas-Ø bstod*,
- (3) the coreferential participant, along with its attached role particle, is deleted from the modifying proposition—thus *dge-sloñ-gis [(sañs-rgyas-Ø dgon-pa-la bžugs)-Pa]-Kyi sañs-rgyas-Ø bstod*.

Under the appropriate rules of inflectional morphology, this then becomes *dge-sloñ-gis dgon-pa-la bžugs-pai sañs-rgyas bstod* "The monk praised the

Buddha who dwells in the monastery."

Similarly, the proposition *rgyal-po bla-mas btul-bai bgegs-kyis skrag* "The king was scared of the demon the lama tamed" is, again, built from the two propositions *bla-mas bgegs btul* "The lama tamed the demon" and *rgyal-po bgegs-kyis skrag* "The king was scared of the demon," as follows:

- (1) $[(bla\text{-}mas bgegs\text{-}\emptyset btul)\text{-}Pa]$,
- (2) *rgyal-po* $[(bla\text{-}mas bgegs\text{-}\emptyset btul)\text{-}Pa]\text{-}KYi$ *bgegs-kyis skrag*,
- (3) *rgyal-po* $[(bla\text{-}mas bgegs\text{-}\emptyset btul)\text{-}Pa]\text{-}KYi$ *bgegs-kyis skrag*.

which becomes *rgyal-po bla-mas btul-bai bgegs-kyis skrag* "The king is scared of the demon the lama tamed."

2.3.1.4. Relativized propositions and adjectives

A proposition can, of course, consist of just an intransitive verb and its patient participant—for example, *bla-ma skyid* "The lama is happy," *bla-ma ū* "The lama weeps," *bla-ma ngyl* "The lama falls down." If such a proposition is relativized, as in, say, *bla-ma* $[(bla\text{-}ma\text{-}\emptyset ū)\text{-}Pa]$, it behaves just as if it were an adjective. It occurs in the same environment as an adjective: compare, for example, *bla-ma tshen-po* "great lama" with *bla-ma skyid-pa* "happy lama," or *dbañ-tšan-gyi bla-ma* "powerful lama" with *ū-bai bla-ma* "weeping lama." It can occur, like an adjective, as a headless modifier: compare, for example, *tshen-po ndi* "this great one" with *skyid-pa ndi* "this happy one," or *dbañ-tšan-mams* "powerful ones" with *ngyl-ba-mams* "the ones who fall down." It can, if it expresses a state, occur, like an adjective, in a comparative degree: compare, for example, *de-las tshen-po* "greater than that" with *de-las skyid-pa* "happier than that." It can occur, like an adjective, after an intensifier, but not before the conjunction *-tšin*: compare, for example, *bla-ma ſin-tu tshen-po* "very great lama" but not *?bla-ma tshen-po-tšin* with *bla-ma ſin-tu ū-ba* "lama really weeping" but not *?bla-ma ū-ba-tšin*.

It is also possible for a proposition to consist of just a transitive verb and its patient participant, or just a transitive verb and its agency participant, where one participant has been omitted because it is, presumably, recoverable either from context or from general knowledge—for example, *dgra-s gsod* "The

enemy kills (someone)," *dgra-Ø gsod* "(Someone) kills the enemy." If such a proposition is relativized, the resulting modifier is ambiguous: the form *dgra gsod-pa* could be either *dgra [(dgra-s gsod)-Pa]* "the enemy who kills (someone)/the killing enemy" or *dgra [(dgra-Ø gsod)-Pa]* "the enemy whom (someone) killed/the slain enemy." Similarly, for example, *bstod-pai rgyal-po* is ambiguous between the readings *[(rgyal-po-s bstod)-Pa]-kyi rgyal-po* "the king who praised (someone)/the praising king" and *[(rgyal-po-Ø bstod)-Pa]-kyi rgyal-po* "the king whom (someone) praised/the king who was praised." Yet, despite this ambiguity, the modifier still acts just like an adjective: it can be a headless modifier, as in *bstod-pa ndi* "this praising one/praised one"; it can occur after an intensifier, but not before the conjunction *-tsin*, as in *zin-tu bstod-pa* "really praised/praising" but not *?bstod-pa-zin*.²⁶

2.3.1.5. Dummy role particle carriers

When an embedded coreferent in a relative proposition is deleted, its role particle is deleted along with it. In many cases, the reader is able to process the relative construction without that information: the role of the embedded coreferent is RECOVERABLE. This is particularly so where the embedded coreferent is the agent of the embedded verb and the patient is explicit, or where the embedded coreferent is the patient of the embedded verb and the agent is explicit: it is clear that *dgra-Ø bsad-pai rgyal-po* means "the king who slew the enemy" and comes from *[(rgyal-po-s dgra-Ø bsad)-Pa]-kyi rgyal-po*, just as it is clear that *dgra-s bsad-pai rgyal-po* means "the king whom the enemy slew" and comes from *[(dgra-s rgyal-po-Ø bsad)-Pa]-kyi rgyal-po*. Compare,

²⁶ Is *skyid-pa* "happy" really an adjective? Is *ñu-ba* "weeping," or *ngyel-ba* "falling down," or *gsod-pa* "slaying/slain"? I think we can say they are adjectives; the question is whether they are WORDS, rather than unlexicalized fragments of relativized propositions. I think it is fair to say that *skyid-pa* "happy" has been lexicalized in classical Tibetan, and that, say, *ngyel-ba* "falling down" and *gsod-pa* "slaying/slain" have not. A good example of such lexicalization can be found with regard to the transitive verb *BRTSE* "love"—thus both *sañs-rgyas [(sañs-rgyas-kyi sems-tsan-Ø brtse)-Pa]* > *sañs-rgyas sems-tsan brtse-ba* "the Buddha who loves creatures" and *sañs-rgyas [(sems-tsan-gyi sañs-rgyas-Ø brtse)-Pa]* > *sañs-rgyas sems-tsan-gyi brtse-ba* "the Buddha whom creatures love." We would then expect the nominalized phrase *sañs-rgyas brtse-ba* to be ambiguous between "the loving Buddha" and "the loved Buddha," just as, say, *rgyal-po bstod-pa* is ambiguous between "the praising king" and "the praised king." But *brtse-ñu* is not ambiguous; it always means "loving" rather than "loved." The fragment of relativized proposition has been lexicalized as a word with just one of its possible meanings.

similarly, *sañś-rgyas mithoñ-bai dge-sloñ* "monk who saw the Buddha" with *sañś-rgyas-kyis mithoñ-bai dge-sloñ* "monk whom the Buddha saw," or *bla-ma rig-sñags bsgyel-ba* "lama who thwarted the magic spell" with *bla-ma rig-sñags-kyis bsgyel-ba* "lama tripped up by the magic spell."²⁷

To make the role of the deleted coreferent explicit, however, a further optional step may be taken. Let us recall the analysis of our first example, *sañś-rgyas dgon-pa-la bžugs-pas tshos bšad* "The Buddha who dwells in the monastery taught the dharma," as follows:

- (1) the modifying proposition is nominalized with the nominalizer *-Pa*—thus *[(sañś-rgyas-Ø dgon-pa-la bžugs)-Pa]*,
- (2) this nominalized proposition is inserted in the matrix proposition immediately following *sañś-rgyas*, the coreferential nominal head it will modify, and, as in any Tibetan nominal phrase, before the attached role particle—thus *sañś-rgyas [(sañś-rgyas-Ø dgon-pa-la bžugs)-Pa]-kyis tshos bšad*, and
- (3) the coreferential nominal is deleted from the modifying proposition—thus *sañś-rgyas [(sañś-rgyas-Ø dgon-pa-la bžugs)-Pa]-kyis tshos bšad*.²⁸

At this point an additional fourth step may be taken:

²⁷ It is when BOTH medium and patient participants are missing that the relativized proposition becomes ambiguous, as noted above—for example, *bstod-pai rgyal-po* "praised/praising king," *dgra bṣad-pa* "enemy who slew/was slain." Thus, too, compare, for example, *lus ndi skyed-pai pha-ma* "parents WHO bore this body" with *lus ndi skyes-pai pha-ma* "parents FROM WHOM this body was born," or *sprin-dkar ñi-ma mi-sgrigs-pa* "white clouds WHICH did not block the sun" with *sprin-dkar ñi-ma mi-ngrigs-pa* "white clouds BY WHICH the sun was not blocked."

²⁸ Here we are making explicit the intermediate step we skipped over in the description above: the coreferential nominal is deleted, leaving its role particle hanging in the air, as in *dge-sloñ [(dge-sloñ-KYIS mišhod-pa phul)-Pa]-s sañś-rgyas mithoñ* "The monk who gave offerings saw the Buddha." Here, instead of using the proposition as is, with the rules of inflectional morphology automatically deleting the hanging role particle, an indefinite determiner will be placed in the now empty slot as a dummy to carry the hanging role particle, as in *dge-sloñ ; [(GAÑ-KYIS mišhod-pa phul)-Pa]-s sañś-rgyas mithoñ*, which yields *dge-sloñ gañ-gis mišhod-pa phul-bas sañś-rgyas mithoñ* "The monk, WHO, gave offerings saw the Buddha."

- (4) an appropriate indefinite determiner is inserted as a DUMMY to carry the role particle of the deleted coreferential participant—thus *sañś-rgyas_i* [(*GAÑ_i-Ø dgon-pa-la bžugs*)-*Pa*]-*KYis tshos bšad*,

which yields, after the application of the inflectional rules, *sañś-rgyas_i*, *GAÑ_i-Ø dgon-pa-la bžugs-pas tshos bšad* “The Buddha, WHO_i, dwells in the monastery taught the dharma.” Such an additional step would not usually be taken when the embedded participant was the patient, as in the present example; but, as the role of the missing participant becomes more oblique and difficult to recover, the use of such a dummy role particle carrier becomes more frequent—for example, *mal-nbyor-pa nags-tshal_i*, *GAÑ_i-LA me-tog bkra-ba-la bžugs* “The yogin dwells in woods_i, IN WHICH_i flowers bloom,” analyzed as follows:

- (1) [(*nags-tshal-la me-tog bkra*)-*Pa*],
- (2) *mal-nbyor-pa nags-tshal* [(*nags-tshal-la me-tog bkra*)-*Pa*]-*la bžugs*,
- (3) *mal-nbyor-pa nags-tshal* [*(nags-tshal-la me-tog bkra)*-*Pa*]-*la bžugs*,
- (4) *mal-nbyor-pa nags-tshal_i* [*(GAÑ_i-la me-tog bkra)*-*Pa*]-*la bžugs*,

or *nam-mkha_i*, *GAÑ_i-LAS kha nbab-pa-la sprin nag-po nthibs* “Black clouds gather in the sky_i, FROM WHICH_i snow falls,” analyzed as follows:

- (1) [(*nam-mkha-las kha nbab*)-*Pa*],
- (2) *nam-mkha* [(*nam-mkha-las kha nbab*)-*Pa*]-*la sprin nag-po nthibs*,
- (3) *nam-mkha* [*(nam-mkha-las kha nbab)*-*Pa*]-*la sprin nag-po nthibs*,
- (4) *nam-mkha_i* [*(GAÑ_i-las kha nbab)*-*Pa*]-*la sprin nag-po nthibs*.

There are apparently several factors that determine the likelihood that a dummy role particle carrier will be used.²⁹ First is the relative ACCESSIBILITY

²⁹ It must be clearly borne in mind that the indefinite determiner in this construction is not a delimiter of a preceding head, but rather a coreferential pro-form for that head. For example, the proposition *nam-mkha gañ-las kha nbab-pa-la sprin nag-po nthibs* “Black clouds gather in the sky from which snow falls” cannot be parsed as beginning with (*nam-mkha*

of the role of the deleted participant: the more accessible the role, the less likely it is to be carried by a dummy indefinite determiner. In fact, there appears to be a fairly regular hierarchy of accessibility, with an agent most accessible, patient next most accessible, and the various oblique roles—locus, source, instrument—least accessible and therefore most likely to be carried by an indefinite determiner.³⁰ Second, it seems that a relative that PRECEDES

gañ-las . . . "From some sky . . ." but only as *nam-kha (gañ-las . . .)* "The sky from which . . ." But, in any particular construction, how can you tell whether the indefinite determiner is a delimiter or a dummy role particle? The primary clue is the presence of *-Pa* immediately after the verb stem, as opposed to a conjunction, or a locus or source particle without a nominalizing *-Pa* between it and the verb stem—thus, for example, *skye-bo gañ-gis sañs-rgyas mthoñ-TE* or *skye-bo gañ-gis sañs-rgyas mthoñ-NA* must be read as (*skye-bo gañ*)-*gis* . . . and thus, respectively, as "SOME PERSON sees the Buddha and . . ." and "If/when SOME PERSON sees the Buddha . . ." while *skye-bo gañ-gis sañs-rgyas mthoñ-BA* must be read as *skye-bo (gañ-gis . . .)* and thus as "a PERSON WHO sees the Buddha."

There is ambiguity really only in two circumstances. First, the syllable following the verb stem may have been elided for metrical reasons; for example, in the Tibetan translation of the *Vajracchedikā Prajñāpāramitā* we find Sanskrit *ye māñ rūpeṇa cādrākṣur na māñ drakṣyanti te janāḥ* Tibetan *gañ-dag ḥa-la bzugs-su mthoñ*, *skye-bo de-dag ḥa mi-thoñ*, which can be read, on the one hand, as "If/when ANY look upon me as form, those persons do not see me" or "SOME look upon me as form, and those persons do not see me," or, on the other hand, as "PERSONS WHO look upon me as form do not see me." In this case, we can guess from the Sanskrit that the relative reading was intended, but the structure of the Tibetan itself remains ambiguous. Second, where the head can be read as referring to a LOCATION, in either space or time, a construction with a locus or source particle becomes ambiguous; for example, *gnas gañ-la bzung-na* can be read either as (*gnas gañ*)-*la* . . . "If/when he lives SOME PLACE . . ." or as *gnas (gañ-la . . .)* "the PLACE WHERE he lives." Of course, this second source of ambiguity is not found where the verb stem is followed by a conjunction; the expression *gnas gañ-la bzung-te* can be read only as "He lives SOME PLACE, and . . ." Neither of these two types of ambiguity would appear to be particularly troubling.

³⁰ Of these oblique roles, the locus seems generally most accessible; for example, the propositions *me nbar-bai khañ-pa* "house IN WHICH fire burns," *sgom ma-dgos-pai lam* "path ON WHICH meditation is not necessary" are not difficult to process. The adnominal role is the least accessible, and the adnominal role particle MUST be carried by a dummy role particle carrier, at least when the relativized proposition precedes the head it modifies—thus, for example, [(*GAÑ*,*gi drin-gyis bdag sgrol*)-*ba*]-*i bla-ma išhen-po*,*i žabs-la ndud* "I bow to the feet of the great lama, WHOSE grace rescues me," but not ?[(*bla-ma išhen-po*)-*i drin-gyis bdag sgrol*)-*ba*]-*i bla-ma išhen-poi žabs-la ndud*, although both *bla-ma išhen-po*, ?(*GAÑ*,*gi drin-gyis* . . . "Great lama whose grace . . ." and *bla-ma išhen-po* [*bla-ma išhen-po*]-*i drin-gyis* . . . "Great lama whose grace . . ." appear possible.

its head is more likely to contain a dummy role particle carrier than one that follows its head. There are probably good processing reasons for this: among other things, the indefinite determiner in this position can both alert the reader that the proposition currently being processed is relative to an as yet unknown head, and serve as a place-holder for that head in short-term memory. Finally, since this construction appears similar to the relative construction in Sanskrit—relative pronouns in Sanskrit are also basically dummy case-holders, and this construction seems to have first appeared in Tibet in the translation literature³¹—its use can signal an ornate and

³¹ See, for example, in the translation of the *Saddharma-pundarīka*, Sanskrit *tryapatham yo mama rakṣamāno bhaveta bhikṣū mama nirvṛtasya prakāśyet sūtram idam hi loke na cāpi samīyana tasya kācit Tibetan ū ni mya-ñān-ñdas-nas dge-sloñi [(GAÑi-Ø ū)-yi spoyd-yul ndi ni rab-sruñ-ññ de ni nam yañ žum-pa med)-pa]-yis nñdig-riñ-du yañ mdo ndi rab-śod-tšig "After I have passed into nirvana, let the monk, WHO, keeps my rules of conduct and is ever unwearied therein preach this scripture even in the world." Note, too, in the later translation period, from the *Prajñāpradīpikā* of Avalokitavrata, *dgag-pa* [(GAÑi-Ø don-gvis go-ba ston)-pa]-Ø . . . de ni ma-yn-par *dgag-pa* yin "A negation, WHICH states an implication . . . is a term negation," *gžan-gvis khas-blañs-pa* [(GAÑi-Ø yod)-pa] de *dgag-pa* byed "He denies any counter-assertion, WHICH one has."*

I think it is clear that the use of indefinite determiners as dummy role particle carriers, although a perfectly Tibetan construction, became wide-spread in Tibetan through imitation of relative constructions in Sanskrit. In Sanskrit, the relativized proposition usually precedes its matrix, and sometimes follows it, but almost never appears within it. Interestingly, when the relativized proposition precedes the matrix, the head which it modifies can be moved out of the matrix to the immediate right of the relative pronoun, and the relative pronoun is normally echoed in the matrix by a demonstrative pronoun—usually *sah*—as its “correlative,” most often placed at or near the beginning of the matrix—thus both *yah kāṭam karoti, sah puruṣah devadattah nāma* and *yah puruṣah kāṭam karoti, sah devadattah nāma*, but only *sah puruṣah devadattah nāma, yah kāṭam karoti* “The person WHO makes the mat is named Devadatta.” Note, for example, with the relative preceding the matrix, *cāṇakya-candra-guptayoh puṣkalā kāraṇād yo viśleṣa utpadyate, sa āyatniko bhavati* “The estrangement between Cāṇaka and Candragupta WHICH arises from a strong cause is lasting”; and, with the relative following the matrix, *kṛīapuṇya eva nandano, yah priyām idṛśīñ kāmayaśyoti* “Really lucky is Nandana WHO will love such a beloved,” *tayā gavā kīm kriyate, yā na dogdhīt* “What is done with the cow WHICH is not a yielder of milk?”

As a matter of fact, there seems to have been some confusion at first about the proper translation of Sanskrit relatives, and some uncertainty about the use of this dummy construction. We find extra dummy role particle carriers—for example, in the translation of the *Saddharma-pundarīka*, Sanskrit *yā nirvṛtiṁ gaveṣanti drṣte dharme upāsikāḥ* “Pious laywomen, WHO in this life seek nirvana” but Tibetan *dge-bsñen-ma* [(GAÑi-Ø tshe ndi-la

Sanskritized literary register. Of course, the likelihood of finding a dummy role particle carrier increases when several of these factors occur at once.³²

*mayañan nadas-pa GAñ-Ø tshol)-pa]. We find, conversely, double-headed constructions—for example, in the translation of the *Mādhyamikakārikā* of Nāgārjuna, Sanskrit *yasmīnna eva kṣaṇe padārtha jāyate tasminn eva tiṣṭhati vinaśyati* "At just that moment; WHEN_i a thing arises, it also abides and disappears" but Tibetan *skad-tṣig*; [(GAñ; *kho-na-la dños-po skyes-pai gyur-pa*]-i *skad-tṣig*; *de kho-na-la gnas-pa-dañ ndžig-pa yin-no*. And, sometimes, misguided attempts to translate Sanskrit verse line by line make a hash out of its relative propositions—for example, in the translation of the *Saddharma-puṇḍarīka* again, Sanskrit *ye bodhisattva iccheyā . . . / idāpi strām prakāśetum . . . / asamṛṣṭāḥ śucir bhavet* "A bodhisattva; WHO_i might wish . . . to teach this scripture . . . should be undefiled and pure" but Tibetan *mdo-sde ndi ni bstan-par yañ, byañ-tshub sems-dpa; [(GAñ; ndod)-pa]-Ø . . . ndu-ndzi med-la gtsañ-bar bya*, instead of *byañ-tshub sems-dpa; [(GAñ-Ø mdo-sde ndi ni bstan-par ndod)-pa]-Ø ndu-ndzi med-la gtsañ-bar bya*.*

³² And, of course, there are simply the intangibles of style and personal preference. Gtsañ-smyon he-ru-ka, in his biography of Mi-la ras-pa, happily deletes coreferents in oblique roles without providing a dummy role carrier—for example, [(*bde-ba*-Ø *lus-la ba-spū kun gyo*)-ba]-i *bde-ba* "Joy FROM WHICH all the hairs on my body stood on end," [(*dbañ-yen-gye dbañ-gral-la sduñ*)-pa]-i *dbañ yon* "Initiation fee WHEREBY you stand in the initiation line," [(*moe-gus-las mišhi-ma nkhrug*)-pa]-i *moe-gus* "Faith FROM WHICH tears flowed."

Sa-skyā pañjita, on the other hand, was fond of dummy role particle carriers, in all likelihood for metrical reasons alone, since he often used them where the deleted coreferent was a perfectly accessible agent participant, and where the meter forced the omission of the role particle -*KYi*s in any event—for example, *mi*; [(GAñ; *mdza-ba mi-brten*)-pa] *de-dañ ngrogs-par su-žig nus* "Who can be friends with a man; WHO_i does not support his friends?" *mi*; [(GAñ; *byas-pa mi-gzo*)-ba] *de-Ø ni gzan-las rāñ-la gnod* "A man; WHO_i is not grateful harms himself more than others," and

mi; [(GAñ; *skyē-bo dam-pa-dañ dman-pai khyad-par legs-šes-nas de-yi bya-ba bsgrub šes*)-pa]-Ø
phuñ-sum tshogs-pai gži-tshen yin

A man; WHO_i well knows the difference
between noble and base, and
knows how to accomplish his deeds,
is the foundation of excellence.

Note also [(GAñ-žig nor-ndod)] *skyē-bo*; *kyāñ, tshos* *ndid giso-bor bsrūñ-bar bya* "Even a person; WHO_i desires wealth should especially guard the dharma," where *ndod-pai* has been reduced to *ndod* for reasons of meter.

Although we have been using the indefinite determiner *gañ* in our examples so far, any appropriate indefinite determiner can be used as a dummy carrier for the role particle of a deleted coreferent—thus not only, say, *mi ndžig-pai tshos*, [(*GAÑ*-Ø *ndžig-par mi-ngyur*)-*ba*] *nga*-Ø *yod-dam* “Is there some unperishing dharma, WHICH_i will not perish?” but also, for example, *nas rgya-po*, [(*SU*-*la bu yod*)-*pa*] *de*-Ø *bsten* “I will serve the king, WHO_i has a son,” *khyod*, [(*SU*-Ø *ngro*)-*ba*]-*dag*-Ø *ngrogs* “You, WHO_i are going are assembled,” *bdag-gis mthu*, [*(Dži; yod)*-*pa*]-*s* *rgya-mtshoi tshu btus* “I scooped the water of the sea with the strength, WHICH_i I had.” This is true as well where the relativized proposition precedes the head—thus not only, say, [(*bde-gšegs*-Ø *GAÑ*-*du señ-ge lta-bur gzims*)-*pa*]-*yi gnas*, *de-la phyag-ntshal* “I bow to that place, WHERE_i the Well-Gone One slept like a lion,” but also, for example, [(*stoñ-par NAM, thim*)-*pa*]-*yi bar-do*, *la ndžigs-pa-las skyob* “He protects from the terrors in the intermediate state, WHEN_i one dissolves into emptiness.”

Indefinite adverbs can also occur in relative propositions. Such indefinite adverbs can be coreferential with an explicit head: note the parallel structure of, say, *tshos Dži-LTA*, *r byuñ-bai tshul*, “the way, HOW_i the dharma arose” and *tshos GAÑ*, *du byuñ-bai gnas*, “the place, WHERE_i the dharma arose,” *tshos NAM*, *byuñ-bai dus*, “the time, WHEN_i the dharma arose,” and *tshos GAÑ*, *gis byuñ-bai bla-ma*, “the lama, BECAUSE OF WHOM, the dharma arose.” Indefinite adverbs can also be—and, in fact, most often are—headless. In such headless constructions, the relative proposition is often then specified by such expressions as *de-ltar* “in that way,” *de-srid* “to that extent, for that long,” *de skad-du* “in those words”:³³ note the parallel structure of, say, [*Dži-LTA*, *r mi kun-la byams-pa*] *de-lta*, *r* “In that way, HOW_i one loves all men” and [*GAÑ*, *mi kun-la byams-pa*] *de*, “That one, WHO_i loves all men,” or [*khyod-kyis Dži-SKAD*, *du smras-pa*] *de-skad*, *du* “In those words, IN WHICH_i you spoke” and [*khyod-kyis GAÑ, smras-pa*] *de*, “That, WHICH_i you spoke.” In the *Legs-par bšad-pa rin-po-tshai gter* by Sa-skyā paṇḍita we find, for example, [*Dži-LTA*, *r pha-ma bur byams-pa*] *de-lta*, *r bu-tshas pha-mar min* “The son does not love his parents in the way, HOW_i his parents love him,” [*Dži-SRID*, *ño-tsha yod gyur-pa*] *de-srid*, *yon-tan rgyan-gyi mtshog* “Virtue is the best of ornaments to the extent, TO WHICH_i one has modesty,” [*Dži-SRID*, *rañ-stobs ma-rdzogs-pa*] *de-yi bar*, *du dgra-mams bkur* “One honors one’s enemies in the interval, DURING WHICH_i one’s own strength is not perfected,”

³³ As we have noted before, these are all perfectly Tibetan constructions; but their use was undoubtedly influenced by such Sanskrit patterns as *yathā . . . tathā* “in which way . . . in that way” and *yāvat . . . tāvat* “to which extent . . . to that extent.”

[DŽI-LTA DŽI-LTA_r rdže-dpon-gyis
nkor-la drin-gyis bskyañs gyur-pa]
de lta de lta_r g.yog-nkhor-nams
rdže-dpon-ñid-kyi bya-ba sgrub

The retinue of a lord
will accomplish his own deeds
to the extent, TO WHICH, the lord
cares for his retinue with kindness.

2.3.1.6. Headless relatives

Just as adjectives can appear without heads—for example, *ta tshen-po* “great horse” Ø *tshen-po* “great one,” *g.yu sñon-po* “blue turquoise” Ø *sñon-po* “blue one,” *bla-ma bzañ-po tshen-po* “great virtuous lama” Ø *bzañ-po tshen-po* “great virtuous one”—so too can relative propositions. For example, we might find *ta [mgyogs-por rgyugs-pa]* “horse that runs swiftly” Ø *[mgyogs-por rgyugs-pa]* “one that runs swiftly,” *g.yu [rgyal-pos ños-pa]* “turquoise which the king bought” Ø *[rgyal-pos ños-pa]* “one bought by the king,” *bla-ma [dgon-pa-la tshos bšad-pa]* “lama who taught the dharma in the monastery” Ø *[dgon-pa-la tshos bšad-pa]* “one who taught the dharma in the monastery.”³⁴

³⁴ A headless relative can also be specified by an indefinite determiner, as in this verse from the *Tshui bstan-btös* by Bkra-ñis bla-ma VI, Blo-bzañ thub-bstan tshos-kyi ñi-ma:

[gžan-gyi bde-la phrag-dog-pai
mi-bzrod bya-byed rtson-pa] GAÑ
bye-thañ rgyugs-pai tshu-kluñ bzin
rañ-ñid ñal-ba tsam-du zad

SOME/ANY one who sets about the unbearable work
of envying the happiness of others
is like a stream running in the desert:
just wearying himself, he is used up.

The first two lines could also be read as a headless relative with the *gañ* as a dummy role particle carrier, rather than as a specifier—thus *[gžan-gyi bde-la phrag-dog-pai, mi-bzrod bya-byed rtson-pa GAÑ]*. But in this case the word order, I believe, suggests the reading given above. Of course, both readings would probably be TRANSLATED into English in pretty much the same way; but that does not mean that they are not syntactically distinct in Tibetan.

Such headless relatives are commonly found in Tibetan with dummy case particle carriers; they are frequently used in general statements, where the missing head is clearly, from the context, something like "person" or "place" or "thing"—Ø [(*GAÑ*-Ø *gos* *ndod*)-*pa*]-*la gos* *byuñ* "Clothes appeared for (those) WHO wanted clothes," *sañis-rgyas-kyis* Ø [(*GAÑ*-Ø *mi-śes*)-*pa*]-*dag*-Ø *bstan* "The Buddha will teach (one) WHO does not know," Ø [(*rgyal-bu* *GAÑ-du* *tshe nphos*)-*pa*]-*la soñ* "They went to (the place) WHERE the prince had died," Ø [(*NAM* *mgron-po* *gyes*)-*pa*]-*la rgyal-po* *byon* "The king arrived at (the time) WHEN the guests had departed."³⁵ Sa-skyia pañdita writes, in his *Legs-par bśad-pa rin-po-tshei gter*, [*gañ-žig ñuñ-ñus tshog śes-pa*] *de-yi loñs-spyod zad mi-śes* "The one who knows that a little bit is enough will not know an end to abundance," [*ñes-pa* [*bag-tshags-dañ bīas-pa*] *gañ-gis spañs-pa*]-Ø *rdzogs sañis-rgyas-Ø* "One who abandons sin with its traces is a perfect Buddha." Dpal-sprul rin-po-tshe writes, in his *Kun-bzañ bla-mai žal-luñ*, [*gañ-gis gsol-ba ñdebs-pa*] *dei druñ-na rgyal-ba-ñid bžugs* "The Buddha himself dwells near to one who prays."

This sort of headless construction is often found in translations from the Sanskrit—for example, from the *Vajracchedikā*, Sanskrit *ya imam dharma-paryāyam dhārayiṣyanti . . . parameṇa ta āścaryena samanvāgatā bhaviṣyanti* Tibetan [*su-žig tshos-kyi mam-grañs ndi len-pa-dañ ndzin-pa*] *de-Ø ño-mtshar rab-dañ ldan-par ngjur* "Those who take up and keep this scripture will become endowed with the highest wonders"; from the *Saddharmapuṇḍarīka*, Sanskrit *ye parvateṣu eva guhānivāśī . . . teṣāṁ ca valgū śṛṇute hi śabdān* Tibetan [*ri-dañ phug-na gañ-Ø gnas-pa*] *de-dag-mams-kyi sgra-sñān ndir thos* "Here one hears the sweet sounds of those who live on the hills and in the caves"; from the *Mādhyamikakārikā* of Nāgārjuna, Sanskrit *yo dharmam paśyati sa buddham paśyati* Tibetan [*su-s tshos mthoñ-ba*] *de-s sañis-rgyas mthoñ* "He who sees the dharma sees the Buddha."

³⁵ Note the following further examples—[*su-yis dpe ndi thob-pa*] *de-la gter sbiyin* "I will give the treasure to (the person) who finds the book," *nor-bu rin-po-tshe ñdis [dži ndod-pa]-Ø thams-tshad tshar bžin-du ñdebs* "This precious gem makes come down like rain (the things) which one wishes for," [*bdag-ñid gañ-la mi-dga-ba*]-Ø *gžan-la kun-tu de mi-byā* "(That) which one does not like oneself should never be done to others," [*su-la dam-pai tshos mthhis-pa*]-*s bdag-la ston* "Let (the one) who possesses the holy dharma teach it to me."

2.3.1.7. States and processes

In an ADJECTIVE EQUATION, such as *bla-ma rgan-po yin* "The lama is old/an old one," the adjective is read as a headless modifier: that is, the adjective *rgan-po* "old" is processed as the modifier of a redundant or recoverable head *bla-ma* "lama" which has been omitted under the Telegram Principle. We have also already noted a tendency for such adjectives to be related to intransitive verbs—for example, *mañ* "be many" *mañ-po* "many," *dka* "be difficult" *dka-bo* "difficult," *skyō* "be weary" *skyō-mo* "weary," *tshē* "be great" *tshen-po* "great," *r̥ga* "be old" *rgan-po* "old." Thus a writer can often choose between a verbal construction and an adjective equation—between *bla-ma tshē* and *bla-ma tshen-po yin* "The lama is great," between *dge-sloñ* *skyō* and *dge-sloñ* *skyō-mo yin* "The monk is weary," and between *sems-tšan mañ* and *sems-tšan mañ-po yin* "Sentient creatures are many."

Now such intransitive verbs in Tibetan actually express what are both states and processes—thus *bla-ma r̥ga* "The lama is/grows old," *rgyal-po skyō* "The king is/grows weary," *na-rgyal tshē* "His pride is/grows great." Thus the choice of an adjective equation serves to specify that the attribution is not a process but a state—for example, *bla-ma rgan-po yin* "The lama is old/an old one," *rgyal-po skyō-mo yin* "The king is weary/a weary one," *na-rgyal tshen-po yin* "His pride is great/a great one." When a writer thus chooses an adjective equation he specifies the attribution as in some sense abiding or chronic; when he chooses the corresponding intransitive verb construction he does not so specify, and the attribution may in fact be temporary or acute.

The same choice obtains between an equation with a headless relative and the corresponding verb construction: for example, *tshos-rgyud ndis sems-tšan-θ sgrol* "This religious tradition saves beings" states only that an event occurs; but *tshos-rgyud ndi-θ [sems-tšan-θ sgrol-ba]-θ yin* "This religious tradition is one which saves beings" implies that the ability to save beings is inherent to the tradition, that it saves beings more or less regularly, that it is the sort of tradition whereby beings are usually saved. Similarly, *rgyal-pos tshañ-θ nthuñ* "The king drinks beer" states only that a particular event occurs; but *rgyal-po-θ [tshañ-θ nthuñ-ba]-θ yin* "The king is one who drinks beer" implies that the king is a beer-drinking person, that he drinks beer more or less regularly, that he is the sort of person who drinks beer.

Thus Mi-la ras-pa describes himself like this—*gdon-bgegs-mams-kyi ũ za za khrag nthuñ-ba yin* "I am one who eats the flesh and drinks the blood of

demons!" Mar-pa's wife says of her husband, *sku mdun-du khyi-žig byuñ-ruñ tshos gsuñ-žiñ mdžug brño-bas bsdud-pa-žig ndug-pa yin* "He is one who teaches dharma though it be a dog before him, and ends up by giving it his merit." And Pad-ma dkar-po describes the sort of person he is—*ñā de-phyir ſes-nas mtšad-pa yin, gnañ-ba thob-nas rtsom-pa yin, log-smra ndug-nas rtsod-pa yin* "When I know something, I teach it; when I receive something given me, I write it down; when there is a mistake, I argue with it."

The word BE in English contains, as a virus contains, its pre-coded message of damage, the categorical imperative of permanent condition.

—William S. Burroughs,
The Job

Such constructions are similarly used to describe the character of things rather than people. Mar-pa dreams that he must cleanse a tarnished vajra, symbolizing the disciple Mi-la he would meet the next day, and he is told, *r্যyal-ba goñ-ma-mams mñes-šiñ sems-tšan-mams mgu-bar byas-pa yin-pas, rañ-gzan-gyi don grub-pa yin-no* "This is something that makes glad the Buddhas of the past and brings delight to sentient creatures, and so it is something that serves the aims of both oneself and others." Mar-pa says, *ñas rgya-gar-nas blañs-pai tshos ndi-mams sems-tšan-la phan-du re-nas blañs-pa yin* "These teachings I brought from India are what I brought in hope of benefit to sentient creatures." When Mi-la is unsuccessfully meditating with the lama Rñog-pa, he is told, *ñai brygud-pa ndi... ñams-røgs-kyi yon-tan myur-du mi-skye-bai mthu med-pa-žig yin* "This tradition of mine is one whereby one cannot but quickly attain the qualities of knowledge." And Mi-la, when he has himself become a teacher, sings

*rmoñs-pa kha-ñtšhal smra-ba-la
mi-la ras-pas gdams-ñag bšad
de tshu len tshañ-gis ndžal-ba yin
ñan len bzañ-gis bskor-ba yin*

To the speaking of nonsense by fools
Mi-la ras-pa has taught his teaching.

That is to get water and pay back beer;
that is to get evil and return good.

2.3.1.8. Multiple embedding

It should be clear that a matrix proposition containing an embedded proposition can itself be relativized and embedded within yet another proposition: for example, the proposition *sañs-rgyas dgon-pa-la bzugs* "The Buddha dwells in the monastery" can be relativized to modify the nominal head *sañs-rgyas* "Buddha" in the proposition *dge-sloñ-gis sañs-rgyas mthoñ* "The monk saw the Buddha," which in turn can be relativized to modify the nominal head *dge-sloñ* "monk" in the proposition *dge-sloñ-gis tshos bstod* "The monk praised the dharma." This multiple embedding can take place in two ways: the term SELF-EMBEDDING will refer to the insertion of the modifying proposition AFTER the nominal head it modifies; the term LEFT-BRANCHING will refer to the insertion of the modifying proposition as an adnominal BEFORE the nominal head it modifies.³⁶ If the three propositions are self-embedded, the result is:

³⁶ Self-embedding can, theoretically, go on without limit; but it is clear that excessive self-embedding puts too great a strain on the unaided memory. In English, for example, it is syntactically possible to say *the cheese that the rat that the cat that the dog bit chased ate*—that is, *the cheese [the rat [the cat [the dog bit the-eat] chased the-rat] ate the-cheese]*—but it is neither a likely nor an easily understood utterance. We are much more likely to say *the dog that bit the cat that chased the rat that ate the cheese*—that is, *the dog [the-dog bit the cat [the-eat chased the rat [the-rat ate the cheese]]]*. Such a right-branching construction could easily go on indefinitely.

The choice between a self-embedded or branching construction is a choice of literary style. The following sentence from Joseph Conrad's *The Secret Sharer* is largely right-branching:

I was in time to catch an evanescent glimpse of my white hat left behind to mark the spot where the secret sharer of my cabin and of my thoughts, as though he were my second self, had lowered himself in the water to take his punishment . . .

Henry James, on the other hand, is characteristically self-embedding; the following sentence from *The Portrait of a Lady* is probably more difficult to process than the sentence above:

His companion, measuring the length of the lawn beside him, was a person of quite another pattern, who, although he might have excited grave curio-

- (1) (a) $[(sañs-rgyas-\emptyset dgon-pa-la bžugs)-Pa]$ and
 (b) $[(dge-sloñ-gis sañs-rgyas-\emptyset mthoñ)-Pa]$,
- (2) $dge-sloñ [(dge-sloñ-gis sañs-rgyas [(sañs-rgyas dgon-pa-la bžugs)-\emptyset mthoñ]-Pa]-\emptyset mthoñ)-Pa]$ -KYiš tshos bstod,
- (3) (a) $dge-sloñ [(dge-sloñ-gis sañs-rgyas [(sañs-rgyas dgon-pa-la bžugs)-\emptyset mthoñ]-\emptyset mthoñ)-Pa]$ -KYiš tshos bstod, and then
 (b) $dge-sloñ [(dge-sloñ-gis sañs-rgyas [(sañs-rgyas dgon-pa-la bžugs)-\emptyset mthoñ]-\emptyset mthoñ)-Pa]$ -KYiš tshos bstod,

which becomes *dge-sloñ sañs-rgyas dgon-pa-la bžugs-pa mthoñ-bas tshos bstod* “The monk who saw the Buddha who dwells in the monastery praised the dharma.” If the three propositions are left-branching, the result is

- (1) (a) $[(sañs-rgyas-\emptyset dgon-pa-la bžugs)-Pa]$ and
 (b) $[(dge-sloñ-gis sañs-rgyas-\emptyset mthoñ)-Pa]$,
- (2) $[[[(sañs-rgyas-\emptyset dgon-pa-la bžugs)-Pa]-KYi (dge-sloñ-gis sañs-rgyas-\emptyset mthoñ)-Pa]-KYi dge-sloñ-gis tshos bstod,$
- (3) (a) $[[[(sañs-rgyas-\emptyset dgon-pa-la bžugs)-\emptyset mthoñ)-Pa]-KYi (dge-sloñ-gis sañs-rgyas-\emptyset mthoñ)-Pa]$ -KYi dge-sloñ-gis tshos bstod, and then
 (b) $[[[(sañs-rgyas-\emptyset dgon-pa-la bžugs)-\emptyset mthoñ)-Pa]-KYi dge-sloñ-gis tshos bstod,$

which becomes *dgon-pa-la bžugs-pai sañs-rgyas mthoñ-pai dge-sloñ-gis tshos bstod* “The monk who saw the Buddha who dwells in the monastery praised the dharma.”

sity, would not, like the other, have provoked you to wish yourself, almost blindly, in his place.

In Tibetan, the alternative to self-embedding is not right-branching, as in English, but rather LEFT-BRANCHING. This is why native speakers of English tend to feel that classical Tibetan is somehow backwards. In a right-branching construction, the head is presented before its modifiers; in a left-branching construction, the modifiers are presented before their head. I will leave it to others to speculate as to how this relates either to culture or to psychology.

Similarly, the proposition *sañś-rgyas-kyis miśhod-pa dge-sloñ dgon-pa-la bžugs-pas phul-ba bžes* “The Buddha accepted the offering which the monk who dwells in the monastery gave” consists of the three propositions *sañś-rgyas-kyis miśhod-pa bžes* “The Buddha accepted the offering,” *dge-sloñ-gis miśhod-pa phul* “The monk gave the offering,” and *dge-sloñ dgon-pa-la bžugs* “The monk dwells in the monastery” in the following SELF-EMBEDDED form:

- (1) (a) [(*dge-sloñ-Ø dgon-pa-la bžugs*)-*Pa*] and
 (b) [(*dge-sloñ-gis miśhod-pa-Ø phul*)-*Pa*],
- (2) *sañś-rgyas-kyis miśhod-pa* [(*dge-sloñ* [(*dge-sloñ dgon-pa-la bžugs*)-*Pa*]-*kyis miśhod-pa-Ø phul*)-*Pa*]-*Ø bžes*,
- (3) (a) *sañś-rgyas-kyis miśhod-pa* [(*dge-sloñ* [(*dge-sloñ dgon-pa-la bžugs*)-*Pa*]-*kyis miśhod-pa-Ø phul*)-*Pa*]-*Ø bžes*, and then
 (b) *sañś-rgyas-kyis miśhod-pa* [(*dge-sloñ* [(*dge-sloñ dgon-pa-la bžugs*)-*Pa*]-*kyis miśhod-pa-Ø phul*)-*Pa*]-*Ø bžes*,

and the proposition *sañś-rgyas-kyis dgon-pa-la bžugs-pai dge-sloñ-gis phul-bai miśhod-pa bžes* “The Buddha accepted the offering which the monk who dwells in the monastery gave” consists of the same three propositions in the following LEFT-BRANCHING form:

- (1) (a) [*(dge-sloñ-Ø dgon-pa-la bžugs)*-*Pa*] and
 (b) [*(dge-sloñ-gis miśhod-pa-Ø phul)*-*Pa*],
- (2) *sañś-rgyas-kyis* [(*dge-sloñ-Ø dgon-pa-la bžugs*)-*Pa*]-*Kyi* (*dge-sloñ-gis miśhod-pa-Ø phul*)-*Pa*]-*Kyi miśhod-pa bžes*,
- (3) (a) *sañś-rgyas-kyis* [(*(dge-sloñ-Ø dgon-pa-la bžugs)*-*Pa*)-*Kyi* (*dge-sloñ-gis miśhod-pa-Ø phul*)-*Pa*]-*Kyi miśhod-pa bžes*, and then
 (b) *sañś-rgyas-kyis* [(*(dge-sloñ-Ø dgon-pa-la bžugs)*-*Pa*)-*Kyi* (*dge-sloñ-gis miśhod-pa-Ø phul*)-*Pa*]-*Kyi miśhod-pa bžes*.

In such a left-branching proposition, too, we find all the modified nominal heads moved as far to the left as possible, to make the leftward branching both clearer and more symmetrical: thus, instead of *sañś-rgyas-kyis dgon-pa-la*

bžugs-pai dge-sloñ-gis phul-bai mišod-pa bžes, we might find *dgon-pa-la bžugs-pai dge-sloñ-gis phul-bai mišod-pa sañs-rgyas-kyis bžes* “The Buddha accepted the offering which the monk who dwells in the monastery gave,” as follows:

- (1) (a) [(*dge-sloñ-Ø dgon-pa-la bžugs*)-*Pa*] and
 (b) [(*dge-sloñ-gis mišod-pa-Ø phul*)-*Pa*],
- (2) (a) *sañs-rgyas-kyis* [(*dge-sloñ-Ø dgon-pa-la bžugs*)-*Pa*]-*Kyi* (*dge-sloñ-gis mišod-pa-Ø phul*)-*Pa*]-*Kyi mišod-pa bžes*,
 (b) [(*dge-sloñ-Ø dgon-pa-la bžugs*)-*Pa*]-*Kyi* (*dge-sloñ-gis mišod-pa-Ø phul*)-*Pa*]-*Kyi mišod-pa sañs-rgyas-kyis bžes*,
- (3) (a) [(*dge-sloñ-Ø dgon-pa-la bžugs*)-*Pa*]-*Kyi* (*dge-sloñ-gis mišod-pa-Ø phul*)-*Pa*]-*Kyi mišod-pa sañs-rgyas-kyis bžes*,
 (b) [(*dge-sloñ-Ø dgon-pa-la bžugs*)-*Pa*]-*Kyi* (*dge-sloñ-gis mišod-pa-Ø phul*)-*Pa*]-*Kyi mišod-pa sañs-rgyas-kyis bžes*.

2.3.1.9. Balanced relatives

It is possible to have several self-embedded relativizations, all of which have the same coreferent³⁷—for example, *sañs-rgyas tshos bśad-pa dgon-pa-la*

³⁷ Note, for example, the double self-embedding when Mar-pa tells Mi-la žol-gyi *mam-pai khyams ka-ba btšu-gñis yod-pa btsan-khañ-dañt btšas-pa-žig rtsigs* “Build a courtyard in the form of an annex which has twelve pillars that is fitted with a temple for the fierce deities.” Here the matrix proposition is *žol-gyi mam-pai khyams-žig rtsigs* “Build a courtyard in the form of an annex”; then the head *khyams* “courtyard” is modified by nominalizations of the two propositions *khyams-la ka-ba btšu-gñis yod* “The courtyard has twelve pillars” and *khyams btsan-khañ-dañt btšas* “The courtyard is fitted with a temple for the fierce deities,” as follows:

- (1) (a) [(*khyams-Ø btsan-khañ-dañt btšas*)-*Pa*] and
 (b) [(*khyams-la ka-ba btšu-gñis yod*)-*Pa*],
- (2) *žol-gyi mam-pai khyams* [(*khyams* (*khyams-la ka-ba btšu-gñis yod*)-*Pa*)-*Ø btsan-khañ-dañt btšas*)-*Pa*]-*žig rtsigs*,

bžugs-pa sgom “The Buddha who taught the dharma who dwells in the monastery meditates,” which is made up of the matrix proposition *sañś-rgyas sgom* “The Buddha meditates” and the two modifying propositions *sañś-rgyas dgon-pa-la bžugs* “The Buddha dwells in the monastery” and *sañś-rgyas-kyis tshos bšad* “The Buddha taught the dharma,” as follows:

- (1) (a) $[(sañś-rgyas-kyis tshos bšad)-Pa]$ and
 (b) $[(sañś-rgyas-\emptyset dgon-pa-la bžugs)-Pa]$,
- (2) *sañś-rgyas* $[(sañś-rgyas [(sañś-rgyas-kyis tshos bšad)-Pa]-\emptyset dgon-pa-la bžugs)-Pa]-\emptyset sgom$,
- (3) (a) *sañś-rgyas* $[(sañś-rgyas [(sañś-rgyas-kyis tshos bšad)-Pa]-\emptyset dgon-pa-la bžugs)-Pa]-\emptyset sgom$,
 (b) *sañś-rgyas* $[(sañś-rgyas [(sañś-rgyas-kyis tshos bšad)-Pa] dgon-pa-la bžugs)-Pa]-\emptyset sgom$.

Such constructions are, of course, syntactically permitted; they cannot be recast into left-branching form, since only the self-embedding allows the reader to process both relative propositions as modifying the same coreferent; but an alternative construction would be to place a relative proposition on both sides of the coreferent nominal head—for example, *tshos bšad-pai sañś-rgyas dgon-pa-la bžugs-pa sgom* “The Buddha who teaches the dharma who dwells in the monastery meditates,” as follows:

- (1) (a) $[(sañś-rgyas-kyis tshos bšad)-Pa]$ and
 (b) $[(sañś-rgyas-\emptyset dgon-pa-la bžugs)-Pa]$,
- (2) $[(sañś-rgyas-kyis tshos bšad)-Pa]-Kyi sañś-rgyas [(sañś-rgyas-\emptyset dgon-pa-la bžugs)-Pa]-\emptyset sgom$,
- (3) $[(sañś-rgyas-kyis tshos bšad)-Pa]-Kyi sañś-rgyas [(sañś-rgyas-\emptyset dgon-pa-la bžugs)-Pa]-\emptyset sgom$.

(3) (a) *žol-gyi mam-pai khyams* $[(khyams [(khyams-ka-ba btsu-gñis yod)-Pa]-\emptyset btsan-khañ-dañ bišas)-Pa]-žig rtsigs$,

(b) *žol-gyi mam-pai khyams* $[(khyams [(khyams-ka-ba btsu-gñis yod)-Pa] btsan-khañ-dañ bišas)-Pa]-žig rtsigs$.

A balanced pair of relative propositions such as this can provide a framework for further embedding of parallel propositions—for example, *lha-mams-kyis bstod-pai tshos bṣad-pai sañś-rgyas dge-sloñ-gis phul-bai mtshod-pa bžes-pa dgon-pa-la bzugs* “The Buddha who taught the dharma praised by the gods who accepted the offering the monks gave dwells in the monastery.” I will leave it as an exercise to derive this proposition from its components.

2.3.1.10. Complex relativized propositions

Conjoined propositions are themselves propositions which can be relativized to modify a nominal head—thus, for example, with *-kyañ* “BUT,” *med-kyañ dgos-pai khral-bsdud* “tax which is necessary though one does not have it,” or, as the title of a political tract by Kun-bzañ dpal-nbyor, *bsregs-kyañ mi-ntshigs-pai bod* “Tibet—burned but not consumed”; with *-Am* “OR,” *tshos thos-sam bsams-sam bsgoms-pai sems-tšan* “creatures who have heard or pondered or contemplated the dharma,” or *sañś-rgyas tshos bṣad-dam ma-bṣad-pa* “the Buddha, whether he has taught the dharma or not”; with *-STE* “AND,” *gos bkrus-te dag-pa* “clothes that have been washed and are pure”; and with *-tšin* “AND,” *ndre ſa-la za-žiñ khra-la nthuñ-ba* “demons who feed on flesh and gorge on blood,” *ndžig-rtен-gyi khams dpag-tu med-tšin grañs med-pa-dag* “worldly realms which are measureless and without number,” or even *slob-ma abus-gtsañ-nas yoñ-gin yod-pa* “disciples who are coming from Dbus and Gtsang.” Similarly, propositions containing a nominalized proposition in the setting slot can also be relativized to modify a nominal head—for example, *tshañ phan-la žim-pa* “beer which is refreshing and tasty,” *mthoñ-na sgrol-hai bla-ma* “a lama who frees you if you but see him.” These last constructions strike me as being very Tibetan.

2.3.2. Complement constructions

In a complement construction, certain verb or nominal heads are modified by a nominalized proposition, called a COMPLEMENT, which is not relative to the head it modifies. In a NOMINAL complement construction, the complement ADNOMINALLY modifies certain types of noun head—thus, for example, *sañś-rgyas-kyis tshos bṣad-pai tshe* “the time THAT the Buddha taught the dharma.” In a VERB complement construction, the complement ADVERBALLY modifies certain types of verb head—thus, for example, *sañś-rgyas-kyis tshos bṣad-PAR grags* “It is well known THAT the Buddha taught the dharma.”

2.3.2.1. Complement heads

One of the distinguishing features of complement constructions—as opposed to relative constructions—is that the complement can occur only with certain verb or nominal heads. (A relative, on the other hand, can occur with any nominal head.) NOMINAL complement heads are always ABSTRACT NOUNS—for example, *don* “purpose,” *tshul* “way,” *tshe* “time,” as in *sañs-rgyas-kyis tshos bśad-pai DON* “the PURPOSE of Buddha having taught the dharma,” *sañs-rgyas-kyis tshos bśad-pai TSHUL* “the WAY that the Buddha taught the dharma,” *sañs-rgyas-kyis tshos bśad-pai TSHE* “the TIME that the Buddha taught the dharma.”³⁸ VERB complement heads are verbs that can occur with an ABSTRACT PATIENT—for example, *dka* “be difficult” (thus both *tshos dka* “The dharma is difficult” and *dge-sloñ-gis tshos bśad-par dka* “It is difficult for the monk to teach the dharma”), *ñan* “hear” (thus both *tshos ñan* “He heard the dharma” and *dge-sloñ-gis sañs-rgyas-kyis tshos bśad-par ñan* “He heard that the Buddha taught the dharma”).³⁹

2.3.2.2. Nominal complements

In a nominal complement construction, a nominalized proposition adnominal modifi es a nominal head that is not coreferential with any participant in the embedded proposition.⁴⁰ For example, given the proposition *sañs-rgyas-*

³⁸ Other typical nominal complement heads include *skabs* “occasion,” *rgyu* “cause,” *mtha* “end,” *mtshan-ñid* “sign,” *nbras-bu* “effect,” *thabs* “means,” *phan* “benefit,” *rgyu-mtshan* “reason,” *bden-pa* “truth,” *rdzun* “falsehood,” *ndod-pa* “opinion,” *bzed-pa* “contention,” *lta-ba* “doctrine,” *ndu-ñes* “concept,” *dmigs-pa* “idea,” *lo-rgyus* “history,” *sgruñs* “tale,” and so on.

³⁹ Verb and nominal complement constructions are interestingly parallel in Tibetan, just as adverbs and adnominals are interestingly parallel—thus *ngyogs-poi rta* “fast horse” is to *ngyogs-por rgyug* “runs fast” as *rta rgyugs-pai rgyu* “the reason the horse runs fast” is to *rta rgyugs-par mthoñ* “He sees that the horse runs fast.” In fact, many of the verbs that take verb complements become, when nominalized with -*Pa*, nominals that take nominal complements—for example, *bla-ma ngro-bar dgos* “It is necessary for the lama to go” *bla-ma ngro-bai dgos-pa* “the necessity that the lama go,” *bla-ma ngro-bar dmigs* “He visualizes that the lama goes” *bla-ma ngro-bai dmigs-pa* “the visualization that the lama goes,” *bla-ma ngro-bar re* “He hopes that the lama goes” *bla-ma ngro-bai re-ba* “the hope that the lama goes.”

⁴⁰ All nominal complement constructions and many relative constructions consist of a

kyis tshos bšad "The Buddha taught the dharma," we might find such nominal complement constructions as *sañś-rgyas-kyis tshos bšad-pai tshul* "the way that the Buddha taught the dharma," *sañś-rgyas-kyis tshos bšad-pai nbras-bu* "the result of the Buddha having taught the dharma," *sañś-rgyas-kyis tshos bšad-pai lo-rgyus* "the history of the Buddha having taught the dharma, *sañś-rgyas-kyis tshos bšad-pai bžed-pa* "the assertion that the Buddha taught the dharma."

Such nominal phrases may then, of course, play any participant role in the proposition—for example, *sañś-rgyas-kyis tshos bšad-pai dus-Ø nbab* "The time for the Buddha to teach the dharma has come," *sañś-rgyas-kyis tshos bšad-pai tshe-LA bslebs* "He arrived at the time that the Buddha was teaching the dharma," *sañś-rgyas-kyis tshos bšad-pai lta-ba-LAS ldog* "He is opposed to the doctrine that the Buddha taught the dharma," *sañś-rgyas-kyis tshos bšad-pai nbras-bu-DĀN ldan* "He is endowed with the result of the Buddha's teaching of the dharma," *sañś-rgyas-kyis tshos bšad-pai bden-pa-s bgegs kun ži-bar šog* "By the truth that the Buddha taught the dharma may all hindering demons be calmed!"

nominalized proposition adnominally modifying a following nominal head. The difference is this: a relative proposition is processed as having some omitted participant coreferential with the head it modifies—thus *dge-sloñ-gis sañś-rgyas-Ø mthoñ-bai dge-sloñ* "monk who sees the Buddha," *sañś-rgyas-kyis dge-sloñ-Ø mthoñ-bai dge-sloñ* "monk whom the Buddha sees"; a complement proposition is not processed as having any omitted participant coreferential with the head it modifies—thus *dge-sloñ-gis sañś-rgyas-Ø mthoñ-bai mtshan-ñid* "the sign that the monk sees the Buddha," *sañś-rgyas-kyis dge-sloñ-Ø mthoñ-bai mtshan-ñid* "the sign that the Buddha sees the monk."

Moreover, the head of a relative may be either an abstract or concrete noun, while the head of a nominal complement is always an abstract noun. Thus, where the head of a propositional modifier is a concrete noun, the modifier must generally be processed as a relative, no matter how oblique the resulting reading—thus not only *ñi-ma sgrub-pai sprin* "clouds WHICH darken the sun" but also *ñi-ma sgrub-pai sprin* "clouds WHEREBY the sun grows dark," and not only *lus ndi skyed-pai pha-ma* "parents WHO bore this body" but also *lus ndi skyed-pai pha-ma* "parents FROM WHOM this body was born."

But where the head is an abstract noun, the modifying proposition must be scanned for missing participants: where none are found, the sequence is read as a complement construction; where a participant is missing from the modifying proposition, the construction is ambiguous between relative and complement readings. Thus a sequence such as *sañś-rgyas-kyis bšad-pai bden-pa* is ambiguous between the relative reading "the truth which the Buddha teaches" and the complement reading "the truth that the Buddha teaches (something)."

Such nominal complement constructions are frequently found with a temporal noun as the head, used in the setting slot of a proposition—for example, *ña gro-bo luñ-la sleb-pai do-nub-la* “On the eve of my arriving in Red Valley . . .” *de-dañ mdžal-bai tho-rañs-la* “On the morning that I met him . . .” *tshos bšad-pai mthar* “After he had taught the dharma . . .” Two idioms may be noted here as well. The word *ñañ* “nature, character,” as head of a complement construction, can be used in the setting slot to indicate a mood or state of mind out of which the event occurs—for example, *thugs dgyes-šin spro-ba-zig byuñ-bai ñañ-nas, yum tsha-ba ndren* “With glad and joyous thoughts arising, the Lady brought warm food,” *thugs-rgyal tshuñ-zad nkhuñs-pai ñañ-nas mnal sad* “She woke up with her pride growing a little.” The word *sgo* “gate, door,” as head of a complement construction, can be used in the setting slot to indicate the means whereby or the source from which the event occurs—for example, *rgyal-pos ša sbyin-pai sgo-nas phug-ron-gyi srog blus* “Through giving his flesh, the king ransomed the life of the dove.”

2.3.2.3. Verb complements

In a verb complement construction, a nominalized proposition adverbially modifies a verb head.⁴¹ For example, given the proposition *bla-mas bgegs btul* “The lama tamed the demon,” we might find such verb complement constructions as *bla-mas bgegs btul-bar rmis* “He dreamed that the lama tamed the demon,” *bla-mas bgegs btul-bar grags* “It is well-known that the lama tamed the demon,” *bla-mas bgegs btul-bar bzed* “He maintains that the lama tamed the demon.”

Since every proposition nominalized with *-pa* is abstract, every verb that can occur with such a nominalized proposition as its PATIENT can also occur with such a nominalized proposition as its COMPLEMENT. Sometimes this does not

⁴¹ A verb complement construction thus differs from a nominalized proposition simply used as an adverb, usually in the setting slot. Compare, for example, the use of the proposition *sgom-pa mi-dgos* “Meditation is not necessary” in the COMPLEMENT construction *bla-mas sgom-pa mi-dgos-par bzed* “The lama maintains that meditation is not necessary” with its use as a simple ADVERB in *bla-mas sgom-pa mi-dgos-par bden-pa mthoñ* “The lama, without meditation being necessary, sees the truth.” In many cases, the correct reading—whether complement or simple adverb—will depend on the particular verb head—for example, *BZED* “maintain” as opposed to *MTHOÑ* “see”—and the distribution of its participants.

seem to make much difference: compare, for example, [*rgyal-pos yon nbul-ba*]-Ø *dka* "The giving of gifts by the king was difficult" with [*rgyal-pos yon nbul-ba*]-r *dka* "It was difficult for the king to give gifts," or *ñas* [*rgyal-pos yon nbul-ba*]-Ø *ndod* "I desire the giving of gifts by the king" with *ñas* [*rgyal-pos yon nbul-ba*]-r *ndod* "I desire that the king give gifts." With many verbs, however, a patient construction seems to refer to an ACTION, while a complement construction seems to refer to a FACT. Note the following comparisons:

ACTION	FACT
[<i>rgyal-pos yon nbul-ba</i>]-Ø <i>grags</i> "The giving of gifts by the king is well known."	[<i>rgyal-pos yon nbul-ba</i>]-r <i>grags</i> "It is well known that the king gives gifts."
<i>ñas</i> [<i>rgyal-pos yon nbul-ba</i>]-Ø <i>brdžed</i> "I forgot the giving of gifts by the king."	<i>ñas</i> [<i>rgyal-pos yon nbul-ba</i>]-r <i>brdžed</i> "I forgot that the king gives gifts."
<i>ñas</i> [<i>rgyal-pos yon nbul-ba</i>]-Ø <i>ñan</i> "I heard the giving of gifts by the king."	<i>ñas</i> [<i>rgyal-pos yon nbul-ba</i>]-r <i>ñan</i> "I heard that the king gives gifts."
<i>ñas</i> [<i>rgyal-pos yon nbul-ba</i>]-Ø <i>rig</i> "I understand the giving of gifts by the king."	<i>ñas</i> [<i>rgyal-pos yon nbul-ba</i>]-r <i>rig</i> "I understand that the king gives gifts."

Note, too, that many verbs that occur with a complement cannot occur with a nominalized proposition as patient—for example, [*śin nthu-ba*]-r *ngro* "He goes to gather wood" but not ?[*śin nthu-ba*]-Ø *ngro*, [*śin nthu-ba*]-r *gsol* "I pray that you gather wood" but not ?[*śin nthu-ba*]-Ø *gsol*, [*śin nthu-ba*]-r *smras* "He said that he gathers wood" but not ?[*śin nthu-ba*]-Ø *smras*.

2.3.2.3.1. TYPES OF COMPLEMENT CONSTRUCTION

There are four types of verb complement construction, according to two intersecting distinctions. First, the verb head can be either transitive or intransitive; second, the verb head can either require or not require that a participant in the complement be coreferential with its patient and be omitted from the complement. An intransitive verb head without obligatory corefer-

ence we will call TYPE 1—for example, *BDEN* “be true” in *bla-ma-s bgegs btul-bar bden* “It is true that the lama tamed the demon”; an intransitive verb head with obligatory coreference we will call TYPE 2—for example, *oN* “come” in *bla-ma-Ø bgegs btul-bar oNs* “The lama came to tame the demon.” Similarly, a transitive verb head without obligatory coreference we will call TYPE 3—for example, *SGRAG* “proclaim” in *bla-ma-s bgegs btul-bar ryal-pos bsgrags* “The king proclaimed that the lama tamed the demon”; a transitive verb with obligatory coreference we will call TYPE 4—for example, *SKUL* “appoint” in *bla-ma-Ø bgegs btul-bar ryal-pos bskul* “The king appointed the lama to tame the demon.”⁴²

2.3.2.3.1.1. TYPE 1 COMPLEMENT CONSTRUCTIONS

In a Type 1 complement construction, the complement replaces the patient of its intransitive verb head: in such a construction, the verb has no patient participant. Type 1 verb heads are, generally, what we can call STATUS VERBS: they express the epistemic status of the complement—for example, *GSAL* “be clear,” *MNON* “be evident,” *BDEN* “be true,” *SRID* “be possible,” *NES* “be certain,” *GRACS* “be well-known”; or its evaluative status—for example, *RUN* “be proper,” *OS* “be appropriate in terms of status,” *DGOS* “be necessary,” *BYA* “be requisite,”⁴³ *DKA* “be difficult,” *sNAN* “be sweet-sounding”; or its ontological status—for example, *YIN* “be the case,” *NDUG* “be the current condition,” *YOD* “be present,” *BYUN* “occur,” *GYUR* “eventuate,” *oN* “be coming,” *soN* “have happened.”⁴⁴

⁴² Note that these are syntactic distinctions, depending on the number and nature of the participants which, in addition to the complement, accompany the verb head. If there turn out to be semantic correlates to such syntactic distinctions—for example, if “verbs of perception” turn out to be largely Type 3 heads—then so much the better.

⁴³ The verb *BYA* “be requisite” is in fact the future stem *bya* < *b-BYA* of the transitive verb *BYA* (*byed/byas/bya/byos*) “make, do.” In complement constructions, this stem is frequently normative—thus *bla-mas bgegs gdul-bar bya* “The lama should tame the demon,” *ryal-pos dgra bsad-par mi-bya* “The king ought not slay the enemy.” The normativity of these constructions comes from their original use as translations of Sanskrit future passive verb forms.

⁴⁴ The verb head *soN* “have happened” is in fact what is usually considered to be the highly irregular past stem of *NGRO* “go.”

Complement constructions with evaluative status verbs are often themselves nominalized and used as relative modifiers of a nominal head—thus, for example, *bla-ma mtshod-par os-pa* “a lama worthy of worship,” *bstan-btshos rig-par dka ба* “a treatise which is difficult to understand,” *tshig ndzigs-su ruñ-ba* “a word to be feared,” *dge-sloñ snod-du ruñ-ba* “a monk worthy to be a disciple,” *bstan-pa šes-par bya-ba* “a doctrine one should know.”

Even more important, ontological status verbs are widely found in PERIPHRACTIC constructions. Such constructions are old in Tibetan—for example, in an archaic Central Asian manuscript, *rgya mgo nag-po de-la phyag-ntshal-žün des bkol-BAR OÑ-ño* “It came about that the Chinese masses paid homage to him, and were by him enslaved.”⁴⁵ In the later literature, note the following examples from the biography of Mi-la ras-pa—*ndus-byas thams-tšad mi-rtag-PAR NGYUR* “All caused things are impermanent,” *bod mun-nag-gi gliñ-na skyes-bu gañs-la ñi-ma ſar-ba ndra-ba yañ yod-PAR NDUG* “Yet there are in this dark land of Tibet people like the sun rising on the glaciers,” *rañ-sems tshos-skur mthoñ-BAR NGYUR* “You will see your own mind as the Dharma-body,” *ndi tši yin mi-šes-PAR NDUG* “I don’t know what this is,” *bla-mas tshos kyañ mi gnañ-*

⁴⁵ In one archaic manuscript from Central Asia, discussing a mythical Age of Sorrows, we find the following passages:

dper pha-ma gñis-la bu-spun gñis bdog-na, bu gtšig-gis pha-log-pa-la ñan-dgur byas-pas, nor bisald-te oñs-na pha-ma gñis kyañ bu des nor rfied ndzañs-po žes bstod-PAR OÑ-ño, bu gtšig drañ-mkhrañ išhe myi pha-log-po-la ñan myi-byed nor myi tshold-ie, gtsug-lag-gi myi ni ñan tšes smad-PAR OÑ-ño

For example, if a father and mother had two sons, and if one son did everything evil to others, and so gained wealth, the father and mother would praise him, saying “That son has found wealth, and is wise.” And if one son was very upright, and did not do evil to other men, and did not gain wealth, this accomplished man would be reviled as evil.

myi dbul-poi kha-nas srid-la phan-pai tshig bzañ-po bden-pa-žig zer-na yañ sus-kyañ myi-ñan-BAR OÑ-ño, la-la tshig bden-pa de thos-na yañ, rna-ba ya-gtšig-tu thos-na, rna-ba ya-gtšig-tu phyuñ-ste, yid-la myi-ndzin-BAR OÑ-ño, bden žes sus kyañ myi-ñan myi-bstod-PAR OÑ-ño

Though a good and true word, beneficial to life, was spoken from the mouth of a poor man, no one would listen. If someone heard that true word, it would go in one ear and out the other, and he would not keep it in mind. No one would listen and praise it as true.

BAR GDA "Yet the lama does not bestow the dharma." Similarly, note the following examples from the *Legs-par bṣad-pa rin-po-tshai gter* by Sa-skya paṇḍita—*ñi-mai od-zer šar-ba-na, nbyuñ-poi bya-mams loñ-BAR NGYUR* "Owls become blind when the sun's rays rise," *ndžam-pos ndžam-po ndžoms byed-tšiñ, ndžam-pos rtsub-moañ ndžoms-PAR BYED* "Gentleness conquers the gentle, and gentleness conquers the rough," *blo-ldan bya-ba tšhuñ-zad kyañ, rgyun-du gros-kyis bsgrub-PAR BYA* "An intelligent person should always accomplish even a little deed with counsel," *śin-tu rgas-PAR GYUR-ishe yañ, thos-pa mañ-du bsag-PAR BYA* "Even when one has become very old, one should gather much learning."

2.3.2.3.1.2. TYPE 2 COMPLEMENT CONSTRUCTIONS

In a Type 2 complement construction, the complement does not replace the patient of its intransitive verb head; instead, the complement has a missing participant which is processed as coreferential with the patient participant of the verb it modifies. Compare, for example, the Type 1 *bla-ma-s bgegs btul-bar bden* "It is true that the lama tamed the demon" with the Type 2 *bla-ma-Ø bgegs btul-bar oñs* "The lama came to tame the demon." The first construction has no patient participant of the verb head, and can be diagrammed as *[bla-ma-s bgegs btul-ba]-r bden*. The second construction has both a patient and a complement of the verb head, and can be diagrammed as *bla-ma-Ø [bla-ma-s bgegs btul-ba]-r oñs*.

Type 2 verb heads do not seem to be neatly classifiable, but many of them are verbs of intention or ability—for example, *NUS* "be able," *THUB* "be able," *RTSOL* "endeavor," *BRTON* "strive," *RTSAM* "begin," *SES* "know," *NGRO* "go," *OÑ* "come."⁴⁶ Others are verbs indicating a change of state, used with equative complements—for example, *SNAÑ* "appear," *DŽU* "melt," *THIM* "dissolve," *TŠAR* "become visible."

⁴⁶ I believe the verbs *NGRO* "go" and *OÑ* "come," used as Type 2 verb heads, have an intentional quality about them—for example, *dge-sloñ ſiñ nthu-bar ngro* "The monk goes (in order) to gather wood," *bla-ma tshos sgrog-par oñs* "The lama came (in order) to proclaim the dharma." Note that a verb can function as more than one type of complement head: note the difference in the meaning of the verb *OÑ* "come" between the Type 1 construction *bla-ma-s bgegs btul-bar oñ* "The lama WILL tame the demon" and the Type 2 construction *bla-ma-Ø bgegs btul-bar oñ* "The lama COMES TO tame the demon."

2.3.2.3.1.3. TYPE 3 COMPLEMENT CONSTRUCTIONS

In a Type 3 complement construction, the complement replaces the patient of its transitive head: in such a construction, the verb has no patient participant. Again, Type 3 verb heads are not neatly classifiable, but many of them seem to involve the reception, processing, or transmittal of INFORMATION: for example, as to information RECEPTION, we find *MTHOÑ* "see," *ÑAN* "hear," *RTOG* "recognize," *RMI* "dream," *DMIGS* "visualize"; as to information PROCESSING, we find *SAM* "think, GO "understand," *NDOD* "desire," *DRAN* "remember," *RDŽED* "forget," *DZUÑ* "grasp"; as to information TRANSMITTAL, we find *BŽED* "assert," *SÑAD* "relate," *SGRAG* "proclaim," *SMRA* "say."

Of course, any participant in a complement can optionally be omitted when it is recoverable from the discourse. In a Type 3 complement construction such an omission can be syntactically ambiguous: for example, *dge-sloñ-gis bgegs btul-bar srag* can be read as either "The monk proclaimed that (someone) had tamed the demon" or "(Someone) proclaimed that the monk had tamed the demon." One plausible reading of such a construction is that an omitted complement participant is coreferential with the immediately preceding agency of the transitive verb head—thus "THE MONK proclaimed that HE had tamed the demon." Where such a reading is in fact intended, the omitted complement participant may be marked by a reflexive delimiter—thus *dge-sloñ-gis [dge-sloñ RAÑ-gis bgegs btul-ba]-r bsgrags* "The monk proclaimed that he HIMSELF had tamed the demon."

2.3.2.3.1.4. TYPE 4 COMPLEMENT CONSTRUCTIONS

In a Type 4 complement construction, the complement does not replace the patient of its transitive verb head; instead, the complement has a missing participant which is processed as coreferential with the patient participant of the verb it modifies. Compare, for example, the Type 3 *bla-mas dge-sloñ-gis bgegs btul-bar rmis* "The lama dreamed that the monk tamed the demon" with the Type 4 *bla-mas dge-sloñ-Ø bgegs btul-bar bskul* "The lama exhorted the monk to tame the demon." The first construction has no patient participant of the verb head, and can be diagrammed as *bla-mas [dge-sloñ-gis bgegs btul-ba]-r rmis*. The second construction has both a patient and a complement of the verb head, and can be diagrammed as *bla-mas dge-sloñ-Ø [dge-sloñ-gis bgegs btul-ba]-r bskul*.

Many Type 4 verb heads appear to be verbs of inducement—for example, *SKUL* “exhort, induce,” *SGO* “order,” *TŠHOL* “appoint,” *DŽUG* “cause, compel,” *ŽU* “request,” *GSOL* “pray.” Others are verbs indicating a change of state, used with equative complements—for example, *SGYUR* “cause to change,” *DŽU* “make melt,” *STIM* “cause to dissolve,” *RDZU* “transform deceptively, disguise.”

NO OBLIGATORY COREFERENCE	
INTRANITIVE VERB HEAD	TRANSITIVE VERB HEAD
[bla-ma-θ ūnal-ba]-r BDEN “It is true that the lama slept.”	rgyal-pos [bla-ma-θ ūnal-ba]-r RMIS “The king dreamed that the lama slept.”
[bla-ma-s bgegs btul-ba]-r BDEN “It is true that the lama tamed the demon.”	rgyal-pos [bla-ma-s bgegs btul-ba]-r RMIS “The king dreamed that the lama tamed the demon.”
TYPE 1	TYPE 3
OBLIGATORY COREFERENCE	
INTRANITIVE VERB HEAD	TRANSITIVE VERB HEAD
bla-ma-θ [bla-ma-θ ūnal-ba]-r ONS “The lama came to sleep.”	rgyal-pos bla-ma-θ [bla-ma-θ ūnal-ba]-r BSKUL “The king exhorted the lama to sleep.”
bla-ma-θ [bla-ma-s bgegs btul-ba]-r ONS “The lama came to tame the demon.”	rgyal-pos bla-ma-θ [bla-ma-s bgegs btul-ba]-r bskul “The king exhorted the lama to tame the demon.”
TYPE 2	TYPE 4

Table 14. Types of complement construction

2.3.2.3.2. COMPLEX COMPLEMENTS

Just as in the case of complex relativized propositions, conjoined propositions can be nominalized with *-pa* and used as complement modifiers of verb or nominal heads—for example, in the chronicle *Rgyal-rabs gsal-bai me-loñ, lta-ba yañs-śiñ spyod-lam žib-par mdzod* “Make your view broad AND your practice precise,” or, in the *Legs-par bšad-pa rin-po-tshai gter* by Sa-skya pañjita, *gnod-pa byed-pa tshuñ-ña yañ, myur-du bsaL-LA ndum-par bya* “Though the harm you have done be small, you should quickly remedy it AND make peace.”

2.3.2.3.3. THE OMISSION OF *-Pa*

As we have discussed above, the nominalizer *-pa* can be omitted when it would otherwise occur between a verb stem and a bound particle. Such omissions are found in complement constructions as well—thus, for example, *bla-ma bgegs btul-du oñs* “The lama came to tame the demon,” *rgyal-pos bla-ma tshos sgrog-tu bskul* “The king exhorted the lama to proclaim the dharma.”⁴⁷ In such cases, too, the adverb marker *-tu* may be omitted along with the *-pa*—for example, in the biography of Mi-la ras-pa by Gtsañ-smyon he-ru-ka, *?a-khui khyim rdibs-nas mi mañ-po ſi ndug* “My uncle’s house fell down, and many people died.” Note, for example, the perceived parallelism of these two lines by Sa-skya pañjita—*ndžam-pos ndžam-po ndžoms byed-tšiñ, ndžam-pos rtsub-moañ ndžoms-par byed* “Gentleness conquers the gentle, and gentleness conquers the rough.”

2.3.2.3.4. EQUATIVE COMPLEMENTS

Verb complements can also be built from equative propositions—for example, *nbañs-śig rdže yin* “A vassal is king” *nbañs-śig rdže yin-par re* “A vassal hopes to be king.” When the equative verb *yin* is omitted from the equative proposition, the nominalizer *-pa* which is attached to the verb disappears

⁴⁷ I have a hunch that the omission of *-pa* before *-tu* in these constructions is much more frequent in—or even limited to—those with Type 2 and Type 4 verb heads. I have a hunch that this might have something to do with the fact that Type 2 and Type 4 verb heads include those verbs of change that often occur with equative complements, and that equative complements normally omit both the equative verb *yin* and its attached nominalizer *-pa*. But I am not sure what that something is.

along with it, and the adverb particle *-tu* attaches itself to the patient participant immediately to its left—thus the parallel construction, in an archaic Central Asian manuscript, *nbañ-sig ni rdže-RU re, sbal-pa ni sphur-DU re* “A vassal, yes, hopes TO BE KING; a frog, yes, hopes TO FLY.”

Such equative complement constructions with *YIN* omitted are quite common with verbs expressing transformation in substance or appearance, such as *DŽU* “melt,” *THIM* “dissolve,” *STIM* “cause to dissolve,” *GYUR* “change” *SGYUR* “cause to change,” *TŠAR* “become visible,” *SNAÑ* “appear,” *GSAL* “appear vividly,” *RUL* “rot,” *RDZU* “disguise,” *NGRO* “go to a state or condition”—for example, *lha od yin* “The god is light” *lha od-dü ndžu* “The god melts such that it is light/The god melts into light,” *me-tog gser yin* “The flowers are gold” *me-tog gser-du gyur* “The flowers changed such that they were gold/The flowers changed into gold,” *byañ-tshub sems-dpa bram-ze rgan-po yin* “The bodhisattva is an old brahmin” *byañ-tshub sems-dpa bram-ze rgan-por snañ* “The bodhisattva appears such that he is an old brahmin/The bodhisattva appears as an old brahmin,” *mi-lus mi-gtsañ-ba mam-pa sna-tshogs-kyi phuñ-po yin* “The human body is a lump of all kinds of filth” *mi-lus mi-gtsañ-ba mam-pa sna-tshogs-kyi phuñ-por rul* “The human body rots such that it is a lump of all kinds of filth/The human body rots into a lump of all kinds of filth,” *ngoñ-mo khyi-mo-žig yin* “The demoness is a bitch” *ngoñ-mo khyi-mo žig-tu soñ* “The demoness went into the state in which she was a bitch/The demoness became a bitch.” Thus Sa-skyā pañjita writes, in his *Legs-par bšad-pa rin-po-tshai gter, žiñ-pas lo-zlar nbad-pai žiñ, ser-bas skad-tšig rdul-du rlog* “In an instant the hail smashes into dust the field that the farmer worked on all year,” *gnod-par byed-pai dgra-bo yañ, thabs-dañ ldan-na grogs-su ngyur* “Even a harmful enemy turns into a friend, if you have the skill.”

2.3.2.3.5. ON TRANSLATING SANSKRIT VERBS

Classical Sanskrit had an extraordinarily complex—enthusiasts say “rich”—system of verbal inflection. In addition to the interaction of several tense and mode forms,⁴⁸ the verb system was premised on a pervasive distinction be-

⁴⁸ One way of conceptualizing the overall Sanskrit verb system is as follows. There were four TENSES (present, future, perfect, and aorist) which intersected with four MODES (indicative, preterite, optative, and imperative) to yield a 4×4 matrix of possible verb forms. Of these sixteen theoretically possible combinations, ten were of sufficiently frequent occurrence to warrant notice in the grammatical tradition. Thus Sanskrit had not only such

tween active and passive forms of verbs—a distinction which was absolutely meaningless in Tibetan.⁴⁹ Yet this distinction also underlay much of the Buddhist philosophical terminology the Tibetans were so eager to master, such as *kārana/kārya* “cause/effect,” *grāhaka/grāhya* “subject/object,” *ādhāra/ādheya* “maṇḍala/palace/maṇḍala deities.” The following sections will describe how these Sanskrit verb forms were translated into Tibetan.

2.3.2.3.5.1. SIMPLE FORMS

As Inaba Shōju has described in detail for us, the Tibetans dealt with this problem first by reducing all the different Sanskrit verb forms to four—PRESENT, PAST, FUTURE, and IMPERATIVE—to match their own verb system. Leaving aside the imperative, this meant that for all practical purposes the various Sanskrit verbs and participles, both active and passive, could be reduced to six—PRESENT, PAST, and FUTURE ACTIVE; and PRESENT, PAST, and FUTURE PASSIVE. Then the following convention was adopted: the Sanskrit PAST ACTIVE and PAST PASSIVE were both translated with the Tibetan PAST STEM; the Sanskrit PRESENT ACTIVE and FUTURE ACTIVE were both translated with the Tibetan PRESENT STEM; and the Sanskrit PRESENT PASSIVE and FUTURE PASSIVE were both translated with the Tibetan FUTURE STEM. We can diagram this convention as follows:

relatively straightforward forms as a present indicative or future indicative or present optative but also such combinations as a future preterite (“conditional”), aorist optative (“precative”), and perfect preterite (“pluperfect”). This complex system stood in contrast to classical Tibetan with its four tenses—present, past, future, and imperative.

⁴⁹ Sanskrit, unlike English, allows passives from both transitives and intransitives—thus *indrah somam pibati* “Indra drinks soma,” *indrah āste* “Indra sits,” *indreṇa somah pīyate* “Soma is drunk by Indra,” as well as *indreṇa ḍasyate* “There is some sitting going on, and Indra is doing it.” Now Tibetan is perfectly capable of saying *dbañ-po-s so-ma-θ* *nthuñ* “Indra drinks soma” and *dbañ-po-θ* *bžugs* “Indra sits”; it is certainly capable of making *so-ma* “soma” the THEME of a proposition with transitive verb, as in *so-ma-θ* *dbañ-po-s nthuñ* “As for soma, Indra drinks it”; and it can assign more or less RESPONSIBILITY to *dbañ-po* “Indra” through the selection of a transitive or intransitive verb—for example, *dbañ-po-s so-ma-θ me-la nhebs* “Indra casts the soma into the fire” as opposed to *dbañ-po-s so-ma-θ me-la nbab* “The soma descends into the fire because of Indra.” But it can make little syntactic or morphological sense out of the notion of the PASSIVE in Sanskrit.

	ACTIVE	PASSIVE
PRESENT	Present stem	Future stem
PAST	Past stem	
FUTURE	Present stem	Future stem

This meant that all the various Sanskrit past tense forms, both verbs and participles, were translated with the Tibetan PAST stem. This convention applied to past ACTIVE forms, as in Sanskrit *aśrūṇi prāmuñcat* Tibetan *miśhi-ma phyuñ* "He shed tears," Sanskrit *mahānāgarīṇī prāviśat* Tibetan *groñ-khyer tshen-por žugs* "He entered the great city"; and it applied as well to past PASSIVE forms, as in Sanskrit *sa ca bālapṛthagjanair udgrhītaḥ* Tibetan *de yañ byis-pa so-soi skye-bo-mams-kyis bzuñ* "And that is grasped by fools," Sanskrit *mayañ sattvāḥ parimocitāḥ* Tibetan *ñas sems-tšan-mams bkrol* "Sentient creatures are saved by me." Here the Tibetan PAST stems *phyuñ* < *b-PHYUÑ-s* "shed," *žugs* < *θ-DŽUG-s* "entered," *bzuñ* < *b-DZUÑ-s* "grasped," and *bkrol* < *b-GROL-s* "saved" are used to translate both PAST ACTIVE and PAST PASSIVE forms in Sanskrit.

Sanskrit PRESENT ACTIVE forms were translated, similarly, with the Tibetan PRESENT stem, as in Sanskrit *indhanam agnir dahati* Tibetan *mes bud-śin sreg* "Fire burns the firewood," Sanskrit *śūnyāñ vyavalokayati* Tibetan *stoñ-pa mam-par lta* "He examines the empty." Here the Tibetan PRESENT stems *sreg* < *N-SREG* "burns" and *lta* < *N-LTA* "looks" are used to translate Sanskrit PRESENT ACTIVE forms.

But, interestingly, Sanskrit PRESENT PASSIVE forms were regularly translated with the Tibetan FUTURE stem, as in Sanskrit *rūpañ viṣyatvenopadīṣyate* Tibetan *gzugs ni yul-ñid yin-par ūe-bar bstān* "Form is explained as being a perceptual object," Sanskrit *anyavittīti grahaṇena daurmanasyavarjitaṁ grhyate* Tibetan *tshor gžan žes bya-ba smos-pas ni yid mi-bde-ba-las gžan-pai tshor-ba gzuñ* "By the expression 'other consciousness' is understood a consciousness other than a sorrowful one," Sanskrit *kasya kāraṇam iti parikalpyate* Tibetan *gañ-gi rgyu yin-par brtag* "It is determined of what it is the cause." Here the Tibetan FUTURE stems *bstān* < *b-STAN* "will explain," *gzuñ* < *G-DZUÑ* "will understand," and *brtag* < *b-RTAG* "will determine" are used to translate Sanskrit PRESENT PASSIVE forms.

In the same way, Sanskrit FUTURE ACTIVE forms were translated with the Tibetan PRESENT stem, as in Sanskrit *avikṣiptacitta manasikarīṣyati* Tibetan

g.yeñ-ba med-pai sems-kyis yid-la byed “The unwavering mind will ponder it,” Sanskrit *evañ darśanam parān eva drakṣyati na svātmānam* Tibetan *de bžin-du lta-ba yañ gžan kho-na-la ltai, rañ-gi bdag-ñid-la ma-yin* “Thus vision will see only others, not itself,” Sanskrit *bodhisattvā mahāsattvā bhavisyanti* Tibetan *byañ-tshub sems-dpa sems-dpa tshen-po nbyuñ* “There will be bodhisattvas, great beings.” Here the Tibetan PRESENT stems *byed* < *N-BYI-D* “does,” *ltai* < *N-LTA* “sees,” and *nbyuñ* < *N-BYUÑ* “occurs” are used to translate Sanskrit FUTURE ACTIVE forms.

Finally, under the same convention, Sanskrit FUTURE PASSIVE forms were translated with the Tibetan FUTURE STEM, as in Sanskrit *lakṣaṇālakṣaṇat* *tathāgato draṣṭavyah* Tibetan *de-bžin-gṣegs-pa-la mtshan-daiñ mtshan-med-par blta* “The Thus-gone One is to be seen through signs and nonsigns,” Sanskrit *udgrahītavyo nādharmah* Tibetan *tshos ma-yin-pa yañ mi-gzuñ* “What is not the dharma is not to be grasped.” Here the Tibetan future stems *blta* < *b-LTA* “will see” and *gzuñ* < *G-DZUÑ* “will grasp” are used to translate Sanskrit FUTURE PASSIVE forms.

The same convention was used in translating Sanskrit nouns. Sanskrit nominal derivatives from active verbs were translated into Tibetan by nominalizing present stems; Sanskrit nominal derivatives from passive verbs were translated into Tibetan by nominalizing future stems. Thus we find Sanskrit *grāhaka/ grāhya* Tibetan *ndzin-pa/gzūñ-ba* “subject/object,” using the present stem *ndzin* < *N-DZUÑ-D* and future stem *gzuñ* < *G-DZUÑ* of the root *DZUÑ* “grasp”; Sanskrit *kāraṇa/kārya* Tibetan *byed-pa/bya-ba* “cause/effect,” using the present stem *byed* < *N-BYI-D* and future stem *bya* < *b-BYI* of the root *BYI* “do,” and Sanskrit *ādhāra/ādheya* Tibetan *rten-pa/brten-pa* “maṇḍala palace/maṇḍala deities,” using the present stem *rten* < *N-RTEN* and future stem *brten* < *b-RTEN* of the root *RTEN* “support.”

2.3.2.3.5.2. PERIPHRASTIC FORMS

Similar conventions governed the translation of Sanskrit verbs PERIPHRASTICALLY. Periphrastic translations of Sanskrit verbs used tense stems of two verbs—*BYI* “do” and *GYUR* “eventuate”—as verb heads of VERB COMPLEMENT constructions. Sanskrit PAST forms, both active and passive, used primarily the PAST stem *byas* of the head verb *BYI*. Sanskrit PASSIVE FORMS, both present and future, used the FUTURE stem *bya* of the head verb *BYI*. And Sanskrit PRESENT ACTIVE forms used the PRESENT stem *byed* of the head verb *BYI*,

while FUTURE ACTIVE forms used the PRESENT stem *ngyur* of the head verb *GYUR*. In each such construction, the stem of the verb within the complement conforms to the stem convention of simple translation forms.⁵⁰ We can diagram this periphrastic convention as follows:

	ACTIVE	PASSIVE
PRESENT	PRESENT STEM- <i>Pa-r byed</i>	FUTURE STEM- <i>Pa-r bya</i>
PAST	PAST STEM- <i>Pa-r byas</i>	
FUTURE	PRESENT STEM- <i>Pa-r ngyur</i>	FUTURE STEM- <i>Pa-r bya</i>

This convention, again, meant that all Sanskrit past tense forms could be translated periphrastically in the form PAST STEM-*Pa-r byas*, as in Sanskrit *mayārāgiā ārāgya na virāgitāḥ* Tibetan *nas mñes-par byas-te, mñes-par byas-nas* *thugs ma-byuñ-bar byas* "They were pleased with me, and, having been pleased, did not turn away."

Both Sanskrit PRESENT PASSIVE and FUTURE PASSIVE forms were translated periphrastically in the form FUTURE STEM-*Pa-r bya*. Thus we find, for the present tense, Sanskrit *sādhyate* Tibetan *bsgrub-par bya* "It is proven," Sanskrit *saṃpradhāryate* Tibetan *dpyad-par bya* "It is examined," and, identically, for the future tense, Sanskrit *jñātavya* Tibetan *śes-par bya* "It is to be known," Sanskrit *vistareṇa gaṇanīyam* Tibetan *rgyas-par brtsi-bar bya* "It is to be counted in detail."⁵¹

⁵⁰ Although the head verb *GYUR* was used primarily to translate Sanskrit future active forms, its past stem *gyur* is occasionally found in the translation of Sanskrit past forms—for example, the aorist in Sanskrit *aṅga-pratyāṅga-māṁśāny accaitisī* Tibetan *yan-lag-dalñ fin-lag-mams biṣad-par gyur* "They cut off their limbs and secondary limbs." In addition, the head verb *GYUR* seems to be used in translating a variety of Sanskrit irrealis modes. It is found in translations of the Sanskrit CONDITIONAL or future preterite, as in Sanskrit *anyathā hi naiva saṃskāra-grahaṇam akarīyata* Tibetan *de-lta ma-yin-na ndu-byed smos-pa mi-mdzad-par ngyur* "Otherwise one would not name them conditioned states," Sanskrit *sacel loka-dhātūr abhavīyat sa eva piñḍa-grāho 'bhavīyat* Tibetan *gal-te khams-śig mtshis-par gyur-na de-fid ril-por ndzin-par ngyur* "If there were a world, there would also be taking it to be real"; and in translations of the Sanskrit OPTATIVE, as in Sanskrit *syuḥ skandhāyatanāni yadi dhātava eva syuḥ* Tibetan *gal-te khams-fid yod-na phuñ-po-dalñ skyed-miśed-nams yod-par ngyur* "If there were elements, there would be groups and senses."

⁵¹ Future passive participles are fairly common in Buddhist texts in Sanskrit; in many

However, Sanskrit PRESENT ACTIVE forms were translated periphrastically in the form PRESENT STEM-*Pa-r byed*, as in Sanskrit *agnih parātmānam eva dahati* Tibetan *me ni gžan-gyi bdag-ñid kho-na sreg-par byed* "Fire burns only the essence of others," Sanskrit *tad eva ājānāti* Tibetan *de-ñid kun ſes-par byed* "He knows just that"; while Sanskrit FUTURE ACTIVE forms were translated periphrastically, with a different verb head, in the form PRESENT STEM-*Pa-r ngyur*, as in Sanskrit *na teṣām ātmā-samjñā pravartīṣyate* Tibetan *de-dag-la ni bdag-tu ndu-ſes ndžug-par mi-ngyur* "The idea of self will not occur to them," Sanskrit *aprāpto na dhakṣyatī* Tibetan *phrad med-na sreg-par mi-ngyur* "What is not in contact will not burn."



Figure 11. Charm against astrological misfortune

such texts they are the major hortatory device. Note, for example, Sanskrit *evam draṣṭavyam saṃskṛtam* Tibetan *ndus-byas de ltar blta-bar bya* "Caused things are to be looked upon like that," Sanskrit *na punyaskandhah parigrahaṇtavyah* Tibetan *bsod-nams-kyi phuñ-po yoñs-su gzuñ-bar mi-bya* "A heap of merit is not to be clung to," Sanskrit *dharmaḥ eva prahātavyah* Tibetan *tshos-nams kyañ spañ-bar bya* "Even events are to be cast aside." Future passive participles can also function as abstract nominals in Buddhist philosophical discourse—thus, for example, Sanskrit *dāhya-lakṣaṇa indhanam* Tibetan *bsreg-par bya-bai mtshan-ñid-išan ni bud-šiñ yin* 'Firewood is that which possesses the sign of flammability.'

A Tibetan SENTENCE consists of a proposition followed by a PERFORMANCE PARTICLE: the performance particle signals the way the proposition is being used. There are three basic ways of using a proposition in Tibetan—as a STATEMENT (“I assert PROPOSITION”), as a QUESTION (“I query PROPOSITION”), or as a COMMAND (“I order PROPOSITION”). A particular propositional content may thus remain constant while its performance varies. For example, the sentences *dgra nbros-so* “The enemy flees,” *dgra nbros-sam* “Does the enemy flee?” and *dgra nbros-šig* “Let the enemy flee!” can be considered different performances of the same proposition *dgra nbros*.¹

1. PERFORMANCE PARTICLES

The STATEMENT PARTICLE is *-o*, the QUESTION PARTICLE is *-am*, and the COMMAND PARTICLE is *-tšig*. These are the three PRIMARY PERFORMANCE PARTICLES; every Tibetan sentence is one of these three sentence types. It is important to remember that Tibetan performance particles do not necessarily coincide with any overt punctuation in the text. The vertical stroke or *šad* is a guide to reading aloud rather than to grammar; although it is of course often the case that the end of a sentence coincides with a reading pause, it is not unusual to find two or more sentences written consecutively without punctuation.

2. MODAL PERFORMATIVES

There is some reason to believe that Tibetan—in common with other Sino-Tibetan languages—has had a richer array of sentence-final performance

¹ Similarly, compare *bla-ma ūal-lo* “The lama is sleeping,” *bla-ma ūal-lam* “Is the lama sleeping?” *bla-ma-ūal-žig* “Sleep, O lama!” and *rgyal-pos ndre brduñs-so* “The king hit the demon,” *rgyal-pos ndre brduñs-sam* “Did the king hit the demon?” *rgyal-pos ndre rduñs-šig* “Let the king hit the demon!”

particles than is immediately apparent in the classical texts.² We have called the statement, question, and command particles the primary performance particles, and noted that every Tibetan sentence falls into one of these three sentence types; but we additionally find several MODAL PERFORMANCE PARTICLES which can occur after the primary particle and specify more precisely the sort of statement, question, or command being uttered. For example, compare *rgyal-po bsad-do* "He will kill the king" with *rgyal-po bṣad-kylis* "He will kill the king, I promise!" or *rgyal-po bsad-da-re* "Be careful, he may kill the king"; compare *bla-ma yin-nam* "Is this the lama?" with *bla-ma yin-nam-žig-gu* "Could this be the lama?" or *bla-ma yin-na* "I wonder if this is the lama"; compare *śin khyer-žig* "Carry the wood!" with *śin khyer-žig-dāñ* "Carry the wood, OK?" Where such a modal performance particle is present, the primary performance particle is frequently omitted. Modal performance particles are found primarily in the early translations, in the epic, and in the more colloquial classical texts influenced by Middle Tibetan. In the sections that follow we will discuss each modal performance particle in the context of the primary performance particle with which it occurs.

3. STATEMENTS

3.1. THE STATEMENT PARTICLE

The STATEMENT PARTICLE is *-o*. The hyphen indicates that the form is BOUND and occurs only with an immediately preceding proposition. The capitalization indicates that the vowel prefixes to itself the last consonant of the preceding syllable coda—thus *dag-go*, *riñ-ño*, *yod-do*, *yin-no*, *thub-bo*, *spham-mo*, *sgyur-ro*, *nbul-lo*, and *lags-so*. A preceding open syllable becomes a diphthong—thus *dgao*, *nbrio*, *rgyuo*, *dgeo*, and *ngroo*. In the scansion of verse such diphthongs may occasionally be counted as two syllables for the purpose of meter.

3.2. REDUNDANCY

The overwhelming majority of Tibetan sentences are statements rather than questions or commands; in fact, we might well assume that any given

² In the Tibeto-Burman language Lisu, for example, we find performance particles which indicate that a proposition is a warning, a complaint, a plea, a surprise, and so on—information often conveyed in English by intonation alone.

sentence is a statement unless specifically informed otherwise. Given such an assumption, the statement particle *-o* becomes REDUNDANT, and, under the Telegram Principle, may be omitted. Thus we find sentences without an overt sentence signal, such as *bla-ma ñal* "The lama sleeps" instead of the more explicit *bla-ma ñal-lo*.

The omission of the statement particle is always optional, but in any given text such an omission may be more or less the norm: it is quite common in narrative prose, in colloquial register, and in paratactic styles; it is less common in didactic prose, in formal register, and in hypotactic styles. The statement particle appears frequently in the archaic manuscripts from Central Asia; it occurs only infrequently in the biography of Mi-la ras-pa written by Gtsañ-smyon he-ru-ka.

Now when the particle occurs in a text that normally omits it, the particle may be processed as carrying extra information. It may be read as emphasizing the assertive character of the performance: for example, in the biography of Mi-la we find Bdag-med-ma rebuking her husband Mar-pa for his apparently cruel treatment of Mi-la by saying *yab-kyis ma-thub-pai dgra de thon-nas mi-gdao thugs bde lags-sam* "The enemy my lord could not conquer has left; he's not here, I tell you. Are you satisfied?" It may be read as concluding a thought unit such as a philosophical argument, narrative paragraph, or side comment: for example, in the biography of Mi-la we find the particle marking a narrative sub-unit in the sequence *kun yon-bdag-daiñ nbañ-su tshug-go, de-dus gtsañ-roñ-gi mes-ston tshon-po bde-mišhog-gi dbañ-mo-išhe žur byuñ-bas* ". . . and they all became his patrons and followers. Meanwhile, Mes-ston tshon-po of Gtsañ-roñ appeared for the great initiation of the god Cakrasamvara, and so . . ." Finally, it may be read as marking the end of a sentence which has been embedded as a direct quote within another, as in *dgos-so sñam* "I thought, 'I have to,'" or from which the equative verb has been omitted, as in *gzugs stoñ-pao* "Form (is) empty," *khañ-pa nao* "(It is) in the house," *bla-mai miñon-šes ma-nor-ba yin-pas-so* "(It is) because the lama's clairvoyance is unerring."

3.3. THE PROMISE PARTICLE *-kyis*

Two modal performance particles are found with statements: we will call these STATEMENT MODALS. The modal performance particle *-kyis* occurs in sentence-final position in direct address where the speaker is making a

promise or prediction of an event which is in some way under his control: in this position *-kyis* constitutes what we will call the PROMISE particle. For example, in the biography of Mi-la ras-pa, the lama Rñog-pa makes a promise to Mi-la, saying *dbañ-dañ gdams-ñag bya-yis* "I will bestow the initiation and teachings," and Bdag-med-ma similarly promises him *ma-gnañ-na ñas žu-yis* "If he does not give them, I will ask him." The master Mar-pa tells Mi-la, without revealing his own identity, *o-na ñas mar-pa-dañ sprad-kyis* "Well, I will introduce you to Mar-pa," and later promises *sgrub-pa-la bžag-nas sgrub-rgyags sbyañ-gis* "When I have set you to meditation I will supply the provisions." Similarly, Mar-pa commands Mi-la to build yet another tower, and says to him *ndi bžig-kyāñ mi-dgos-kyis* "It will not be necessary to tear this one down, I promise."

Similar examples occur in the twelfth-century *Mani bka-nbum*, where we find such sentences as *khyim ño-šes-pa-la bu-mo sbyin-gis* "I will give my daughter to the one who recognizes her house" and *ñed-la mi-ster-na ryal-khams mes bsreg-gis* "If you do not give her to me I will burn your kingdom with fire." In the epic we find Ge-sar threatening his enemies in verse—*gal-te bka-la mañan-na, lña-pai lam-du gtañ-gis zer* "If you do not heed my command,' he said, 'I will send you on the path of death.'" In the archaizing chronicle *Ryal-rabs gsal-bai me-loñ* we find this prophecy of Padmasambhava—*slob-dpon pad-ma nbyuñ-gnas-kyis, brtan-ma btšu-gñis dam-la btags-pas, bod-du mu-stegs-pa mi-yoñ-gis* "I have bound the twelve goddesses to an oath,' said Padmasambhava, 'so that unbelievers will not come to Tibet.'"

In some manuscripts we find what is clearly the same particle written *-kyi*. In the biography of Gtsañ-smyon he-rü-ka written by Sna-tshogs rañ-grol, for example, we find the mad yogin eating the rotten brains of impaled heads and offering them to onlookers with the words *dños-grub dgos-na sbyin-gyi* "If you want magic powers I will give them to you." Further, different manuscripts of the same text may sporadically make the same substitution: in the Spo blockprint of the biography of Mi-la ras-pa, for example, we find the reading *mar-pa-dañ sprad-gyi*, rather than the reading *mar-pa-dañ sprad-kyis* found in the woodblock prints from Spuñs-thañ, Bstan-rgyas-gliñ, and Bkra-śis lhun-po, and cited in our discussion above; and where the Spo blockprint reads *gdams-pa bya-yis*, as cited above, the Bstan-rgyas-gliñ and Bkra-śis lhun-po prints read *gdams-pa bya-yi*.

3.4. THE WARNING PARTICLE *-A-re*

Another statement modal is the particle *-A-re*, found primarily in the translation literature and used where a speaker is asserting a warning: we will call *-A-re* the **WARNING PARTICLE**.³ Warning statements predict consequences which will arise if some course of action is—or is not—followed, and thus are often found after commands and prohibitions. For example, in the Tibetan translation of the *Lalitavistara* we find the warning *dge-sloñ-dag khyed de-bžin-gšegs-pa-la tshe-dañ ldan-pa žes ma-rdžod-tšig, khyed-la yun-riñ-por mi-phan-pa-dañ gnod-pa-dañ mi-bde-bar gyur-ta-re* “Monks, do not call the Tathāgata ‘Venerable One’! There will be hurt and harm and unhappiness for you for a long time.” In the Tibetan translation of the *Divyāvadāna* we read *tšhos-bžin ma-yin-pas ryal-srid ma-byed-tšig, sems-tšan-dmyal-bar gžol-bar gyur-ta-re* “Do not rule unjustly! You will fall to hell.” Sometimes the sequence is reversed, as when we find in the Tibetan translation of the *Vinayavastu* the sentences *khyod bsad-da-re sgra ma-nbyin-tšig* “I will kill you. Don’t make a sound.”

There are different techniques,
 Men write to be read, or spoken,
 Or declaimed, or rhapsodized,
 And quite differently to be sung.

—Louis Zukofsky,
“A” I

Again, warnings may be about things and persons rather than about courses of conduct. In the *Vinayavibhañga* a fable about slander concludes with the moral *wa-skyes groñ-pa brdzun-du smra-ba byed-pa, mdza-bšes nbyed-par byed-pa skyes-ta-re* “The fox is one who makes people tell lies; he is born as a separator of friends,” and in the same text we read *de-dag-gis dei srūñ-mar tšom-rkun-pa mi bži bžag-ste, ndi bros-par gyur-ta-re žes bsgo* “They set four

³ Note that, whereas the promise particle *-kyis* marks a statement as promising some event that may be either desired or undesired but is under the speaker’s control, the warning particle *-A-re* marks a statement as promising some event that is not necessarily under the speaker’s control but which is invariably undesired by the addressee.

thieves as his guards and said, 'He may escape.'" In the *Saddharmapuṇḍarīka* we find the warning *gnas ndi-la ni the-tshom ntshal-ba-yis, byan-tshub-sems-dpa ḥan-ngror mtshis-sa-re* "By having doubt on this point a bodhisattva may fall to an evil destiny," and in the *Lalitavistara* the wicked Māra warns the Buddha-to-be *od-mai myu-gu ltar do-mod biṣad-da-re* "Today I will cut you down like a green bamboo stalk."⁴

4. QUESTIONS

We can distinguish two different types of question—yes-no questions (*Are you ready? Does he like Mozart?*) and information questions (*When did he go? What is your name?*). A YES-NO QUESTION—so called because it can be answered *yes* or *no* in English—asks about the truth of a proposition as a whole; an INFORMATION QUESTION—so called because its answer requires a specific piece of information—assumes the truth of the proposition but asks about the identity of a participant. The yes-no question *Did John see Mary?* asks, in effect, "Is the proposition *John saw Mary* true?" The information question *Whom did John see?* presupposes that John saw someone and requests the identity of the patient participant in the event.⁵

In classical Tibetan, performance particles mark propositions and not participants; hence the question particle identifies yes-no questions. Participants, on the other hand, are identified by determiners; hence in information questions the queried participant is marked by an indefinite determiner.

⁴ In many cases this warning particle was used to translate Buddhist Hybrid Sanskrit constructions with *mā* in the sense of "lest, in order that not," and it may similarly be convenient to TRANSLATE such Tibetan warnings into English using such expressions as *lest* or *for fear that*—for example, *tshos-bzin ma-yin-pas rgyal-srid ma-byed-tsig sems-tsan-dnyal-bar grol-bar gyur-ta-re* "Do not rule unjustly LEST you fall to hell" or "Do not rule unjustly SO THAT YOU DO NOT fall to hell." We must bear in mind, however, that any negation is being created by the English—or the Sanskrit—and does not lie in the Tibetan.

⁵ Note the close relationship this entails between such sentences as *Where are you going?* and *You are going somewhere*, or *Who hit John?* and *Someone hit John*, which is reflected in the use of Tibetan indefinite determiners as interrogatives.

4.1. THE QUESTION PARTICLE

The QUESTION PARTICLE *-am* marks yes-no questions in classical Tibetan. The hyphen indicates that the form is BOUND and occurs only with an immediately preceding proposition. The capitalization indicates that the vowel prefixes to itself the last consonant of the preceding syllable coda—thus *dag-gam*, *riñ-nam*, *yod-dam*, *yin-nam*, *thub-bam*, *npham-mam*, *sgyur-ram*, *nbul-lam*, and *lags-sam*. A preceding open syllable becomes a diphthong—thus *dgaam*, *nbriam*, *rgyuam*, *dgeam*, and *ngroam*. In the scansion of verse such diphthongs may occasionally be counted as two syllables for the purposes of meter.

Note the following examples. Mar-pa performs a miraculous transformation and then asks Mi-la the question *bu mthoñ-nam yid-tshes-sam* "Did my son see? did you believe?" Mi-la, in a fit of depression, thinks *ltshab-bam ltshab-bam* "Should I kill myself? Should I kill myself?" Sa-skyā pandita writes *khyod-kyi bya-ba zin-nam žes*, *nishi-bdag sdod-par mi-nyjur* "The Lord of Death will not wait, saying, 'Have you finished your work?'" Complex propositions can also be made into interrogatory sentences with the question particle—for example, *lar mkhar gru-gsum hom-khuñ ndra-ba ndir ned-mams btshug-ste mthu-byed bsam-pa yin-nam* "Well! Were you thinking of casting us into this triangular tower, shaped like a pit of sacrifice, and working magic on us?" Negative propositions can similarly be made interrogative and used as rhetorical questions. Sa-skyā pandita was particularly fond of this device; in his *Legs-par bṣad-pa rin-po-tshai gter* we find, for example, *dud-rgro yin-yañ rigs-mthun-mams*, *khyu gtšig-tu ni mi-gnas-sam* "Even among beasts, do not those of the same kind stay in one herd?" *rta-la rgyan-du byas-pa de*, *bdag-po ñid-la mi-mdzes-sam* "Is not what is done to adorn the horse becoming to the master himself?" *lag-pas dgra-bo mi-gsod-na*, *mtshon-tsha len-par mi-byed-dam* "If one does not kill the enemy with one's hands, does one not take up the sword?"

4.2. QUESTIONS AND ALTERNATIVES

It seems clear that the question particle *-am* is the same as the *-am* which marks an alternative conjunction. There is certainly reason to believe that yes-no questions in Tibetan derive ultimately from alternative conjunctions, which are sometimes made explicit: for example, in one archaic Central Asian text, the first horse to be tamed by man says *khyod tshab gañ-la-nu bgyi-am myi-bgyi yañ ba-rab-tu sbog-gam myi-sbog* "Will you or will you not water me

on the mountain passes, and will you or will you not wade me in the cattle fords?" and, in his biography, Mi-la is told *khyed-rañ-la šog gsuñ-ba ndug-pas ngroam mi-ngrō* "He has said to you, 'Come!' so are you going or not?"

Often the negated alternative is replaced by the interrogative determiner *tši* "what?" yielding the question marker *-Am-tši* "or what?"—for example, in the collection of tales called the *Mdzañ-blun*, where we read *ña ño-šes-sam tši* "Do you recognize me?" The Sanskrit word *kinnara* refers to heavenly musicians with the heads of horses; the term was given the folk etymology *kim nara* "Is this a man?" which was duly translated in the ninth-century *Mahāvyutpatti* dictionary as Tibetan *miam tši* "Is this a man or what?" This locution is found as late as the 13th-century *Legs-par bšad-pa rin-po-tshai gter* by Sa-skya pañjita, who probably liked the resulting three-syllable collocations primarily for metrical reasons: we find, for example, *mar-meï od-la ndziñ-ba-yis, sbrañ-bu dpa-bar ngro-am tši* "Does a fly become a hero by fighting with the light of a lamp?" *gšan-gzan dug-pai nags-khrod-du, sems-šes rtag-tu sdod-dam tši* "Does a smart person stay forever in a forest of poisonous beasts of prey?" *dpa-bos dgra-sde ma-thul-kyañ, rañ-phyogs gsod-par byed-dam tši* "Though a hero does not subdue the enemy, does he kill his own side?" *tšu-šel me-ndor byed-pa-yi, yul der tšu-šel ntshoñ-ñam tši* "Does one sell crystal in a country where they consider crystal to be flint?"

4.3. INFORMATION QUESTIONS

In a question asking the identity of a particular participant, the queried participant is indicated by one of four INTERROGATIVE DETERMINERS—*gañ* "what?" *tši* "what?" *su* "who?" and *nam* "when?"⁶ The determiner can

⁶ The interrogative determiner *gañ* "what?" is sometimes found in the reduced form *ga-* before the particles *-na*, *-nas*, *-la*, *-las*, *-ru*, and *-r*. In the archaic Central Asian manuscripts we already find *bu ga-las gar soñ soñ* "Child, whence and whither have you gone?" In the biography of Mi-la we find *gar soñ* "Where did he go?" Use of the form: *ga-la* "how?" is a favorite rhetorical device of Sa-skya pañjita in his *Legs-par bšad-pa rin-po-tshai gter*—for example, *dug-sbrul gso-ba ga-la ruñ* "How is it right to nurture a poisonous snake?" *nbyor-ba thob-par gyur-na yañ, bsod-nams med-na ga-la rtag* "Though one has gathered wealth, if one has no merit, how can it last?" *dam-pa srog-la bab-na yañ, rañ-bžin bzañ-po ga-la ndor* "Even if a holy one is in danger of his life, how can he abandon his innate goodness?" *nor-bus spras-pai gser-gyi rgyan, mdzes-kyañ ba-lañ ga-la lta* "Though a golden ornament adorned with gems be beautiful, how would an ox look at it?"

occur both with and without a nominal head—for example, in the biography of Mi-la we find, with a nominal head, *mthu-tshen khyod dbañ-gral-la sdod-pai DBAÑ-YON TSÍ yod* “Magician, WHAT INITIATION FEE do you have for standing in the initiation line?” and, without a nominal head, *lo ser-bas brduñs riññ ña GAN za* “After the hail smashes my crops, WHAT will I eat?” Again, in the *Legs-par bśad-pa rin-po-tshai gter* by Sa-skyā paññita we find, with a nominal head, *rñia-la dbyug-gus ma-bsnun-par, de-srid gžan-dañ KHYAD TSÍ yod* “Without hitting a drum with a drumstick, WHAT DIFFERENCE does it have from another?” and, without a nominal head, *bdag-ñid tshen-po gnas-pai sar, mkhas-pa gžan-dag su-yis rtsi* “In a place where a saint lives, WHO counts other wise men?” And, just as we find indefinite adverbs, we also find interrogative adverbs—thus, again from Sa-skyā paññita, *mkhas-pa mkhas-pai nañ-na mdzes, blun-pos mkhas-pa DŽI-LTAR go* “A wise man is beautiful among the wise; IN WHAT MANNER/HOW can a fool understand a wise man?”

The interrogative determiner *tsí* “what?” in most classical texts is syntactically parallel to the other interrogative determiners—for example, in the biography of Mi-la, *khyod-kyis sdig-pa tsí byas* “What sin have you done?” *mthu-tshen las tsí byed-tshai ndug* “Great Magician, what work are you doing?” *mthu-tshen khyod-la dbañ-yon tsí yod* “Great Magician, what initiation fee have you?” *tsí zer* “What are you saying?” Similar constructions are found in the archaic Central Asian manuscripts—for example, *de ltar byas-na dži-la phan* “If we did that, wherein is the benefit?” But in those manuscripts too we find some evidence of *tsí* as a marker for yes-no questions as well—for example, *bu ga-las gar soñ-soñ tsí myi tsí khyi* “Child, whence and whither have you gone? Are you human? Are you dog?” *bo-mo tsí zer tsí bden* “What is my daughter saying? Is it true?” And some examples can be read as either yes-no or information questions, such as *tha ndi sñun ltar ngo-la myi drag-na dži ñes* “Since these gods are not powerful in command as before, what is the offense?/is there an offense?” I am not sure how to account for this. This use of the particle may be a remnant of an earlier INITIAL question particle, similar—or perhaps even related—to, say, Old Chinese **khíə* > Middle Chinese **khyei* “How in the world . . . ?” In any event, this use of *tsí* appears already obsolescent in the eighth or ninth centuries.

⁷ Where a nominal phrase with an interrogative determiner has no head, presumably the missing head is recoverable from context or from knowledge of the world—for example, *ñā galñ za* “What (food) will I eat?” *mkhas-pa gžan-dag su-yis rtsi* “What (person) counts other wise men?” Compare, from Sa-skyā paññita, the headless *tshuñ-ma ñan-dañ mdza-bo ñan, rgyal-po ñan-pa SU-žig bstén* “WHO relies on a bad wife, a bad friend, or a bad king?” with the headed *yon-tan ldan-pa mi-bkur-bai, gnas der MKHAS-PA SU-žig sdod* “WHAT WISE MAN stays in a place where they do not honor the virtuous?” Note the following headed and headless interrogative phrases in the same verse—*ñan-skyugs khron-pa SU-žig sloñ, skyugs-pa MKHAS-PA SU-žig myañ* “WHO probes a well of vile vomit? And WHAT WISE MAN tastes vomit?”

Now the interrogative determiners are the same as the indefinite determiners: an expression such as *mkhas-pa su-žig*, taken in isolation, can be read as either "some wise man" or "what wise man?" Yet, in context, there is seldom real confusion; when Sa-skyā pāṇḍita writes *skyug-pa mkhas-pa su-žig myañ*, he clearly intends the question "What wise man eats vomit?" and not the statement that there are some wise men who do. Similarly, when Mi-la is first searching for his teacher Mar-pa, he asks everyone he meets *skyes-mtshog mar-pa lo-tstsha gañ-na bžugs* "Where does Saint Mar-pa the Translator live?" Finally, he meets someone who tells him *mar-pa zer-ba ni yod, skyes-mtshog mar-pa lo-tstsha zer-ba ni med* "There is one who is called Mar-pa, but not one called Saint Mar-pa the Translator," and the following conversation takes place:

o-na gro-bo luñ gañ-na yod byas-pas, gro-bo luñ pha-gi yin zer bstan byuñ, pha-gi-na su bžugs byas-pas, mar-pa zer-ba de-ka yod zer, de-la gžan mtshan med-dam byas-pas, la-las bla-ma mar-paañ zer-žüñ ndug zer, bla-mai gdan-sa yin-par thag-tshod-de, la-kha ndi-la tši zer byas-pas, ndi-la tshos la-gañ zer zer, tshos la-gañ-nas bla-mai gdan-sa mthoñ-ba rten-nbrel ſin-tu legs sñam dga-ba-žig byuñ

"Well, where is Gro-bo Valley?" I said. "Gro-bo Valley is over there," he said, and pointed. "Who lives over there?" I said. "That same one called Mar-pa," he said. "Has he no other name?" I said. "There are some who call him lama Mar-pa too," he said. I decided that it was the lama's residence. "What do they call this pass?" I said. "They call it Dharma Ridge," he said; and I had the happy thought that it was an excellent omen to see the lama's residence from Dharma Ridge.

The flow of this conversation makes it clear what is intended to be a question. Other textual cues are available as well: indefinite determiners are often marked by the connective *yañ*—thus, in the *Legs-par bšad-pa rin-po-tshei gter* of Sa-skyā pāṇḍita, *dños-po gañ-dañ gañ-la yañ, goms-na dka-ba tši yañ med* "There is not any difficulty in any matter at all—if one practices"; a question is often indicated by the quote-closer *tše-na*—thus, in the translation of the *Madhyamakāvatāra* of Candrakīrti, Sanskrit *bhavatu gamanadvayam ko doṣa iti cet* Tibetan *ngro-ba gñis yod-mod skyon tši yod tše-na* "What is wrong with there being two goers?" But even without such cues, context can distinguish the indefinite from the interrogative—for example, in the couplet from Sa-skyā pāṇḍita, *GAÑ-la blo-gros mi-ldan-na, bstan-bišos legs-*

kyāñ su-žig len "If SOMEONE has no intelligence, though a teaching be good, WHO accepts it?"⁸

4.4. THE DOUBT PARTICLES

Two modal performatives are found with questions: we will call these QUESTION MODALS. Both these particles are used where the speaker is querying a proposition—or seeking the identity of a participant—hesitantly or dubiously: the particles thus constitute what we will call DOUBT PERFORMATIVES.

The particle *-tsig-gu* is apparently found only in the translation literature. We find several examples of its use in the Tibetan translation of the *Karmaśataka*. Among yes-no questions in the text we find *so-soi skye-bo yin-žig-gu* "Could this be an ordinary man?" and *btšom-ldan-ndas ga-la bžugs-te, bdag-la dgoñs-šig-gu* "Could the Blessed One be dwelling somewhere and thinking of me?" A similar dubitative quality is found in questions with interrogative determiners—for example, *od sdi sui yin-žig-gu* "Whose light could this be?" *btšom-ldan-ndas-dan glam zer-ba su-žig-gu* "Who could this be who converses with the Blessed One?" *thabs dži ltar byas-na khyeu ndii tshe riñ-bar ngyur-žig-gu* "What can I possibly do to lengthen this boy's life?" There are cases as well where the primary question particle *-am* is retained before the modal particle—thus *ndžig-ten-na mi-ndžig-pai tshos gañ ndžig-par mi-ngyur-ba nga yod-dam-žig-gu* "Could there be in the world some imperishable dharma that will not perish?"

⁸ In the *Legs-par bṣad-pa rin-po-tshai gter*, Sa-skyā pāṇḍita is fond of the interrogative locution *su-žig* "who?", probably for metrical reasons, where other writers would use only *su*. For example, Gtsañ-smyon he-ru-ka writes *mkhar sali sui yin, sus byas* "Whose tower is this? Who made it?" and *de-dus-kyi dpañ-po-la su yod* "Who do you have as a witness of that occasion?"; while Sa-skyā pāṇḍita writes *tsan-dan dri-bzañ skye-bo dga, de bsregs sol-ba su-žig len* "People like fragrant sandalwood; but when it's burnt who takes the charcoal?" and *sbrul-la nor-bu yod-na yañ, semis-šes su-žig druñ-du sdod* "Though a snake have a jewel, what wise person stays nearby?"

Note that context can also distinguish adverbial interrogatives from indefinites—thus, from Sa-skyā pāṇḍita once again, *blun-pos mkhas-pa dži-ltar go* "How do fools understand the wise?" *phan-pai mdog-rtags khar sbyin-pai, dgra-bo de-dag dži-ltar gñom* "How will one defeat those enemies who mouth the counterfeit of good advice?"

By the time of Middle Tibetan the doubt particle *-tsig-gu* had apparently been lost, and indeed its precise meaning appears not to have been understood by later writers: the grammarians—clearly influenced by its similarity in appearance to the command particle *-tsig*—decided that it indicated a command. We read, for example, in the *Li-šüi gur-khañ* dictionary, “The particle *-gu*, as in *gyur-tsīg-gu*, is an imperative.” But the same function continued to be served by the doubt particle *-na*, which seems to occur as early as in the archaic Central Tibetan manuscripts: we find the perplexing passage *bab gañ-du bab-na, yul lha-yul guñ-dañ-gyi nañ-du bab-te, dkor su-i dkor-na, lha-za guñ-tshun-gyi dkor-dañ dad-du babs-te* “The descent was, I wonder, a descent where? They descended into the sacred land of Guñ-dañ. The province was, I wonder, whose province? They descended in the province and fief of Lha-za guñ-tshun.” Less enigmatically, we find in the biography of Mi-la such dubitative questions as *žal mthoñ-ba-žig nam yoñ-na nam yoñ-na* “When oh when will I see his face?” *tši yin-na* “What could it be?” *bla-ma gañ-na bžugs-na* “Where could the lama be dwelling?” *mar-pa lo-tstshas dmag de-tsam gañ-nas bos-pa-na* “Where could Mar-pa the Translator have called such an army from?”⁹

5. COMMANDS

In English, commands generally have second-person subjects, but with the second-person pronoun omitted: thus *Go look!* means “You go look!” and *Meditate!* means “You meditate!” First- and third-person commands are expressed periphrastically in such constructions as those with *let* and *may*, as in *Let's go look!* or *May the lama meditate!* In Tibetan, however, virtually any proposition can be made into a command by using the appropriate imperative verb stem and the command particle—thus *mal-nbyor ūa sgoms-sig* “Let me the yogin meditate!” *mal-nbyor-pa khyod sgoms-sig* “You the yogin meditate!” *mal-nbyor-pa khoñ sgoms-sig* “Let him the yogin meditate!”¹⁰

⁹ This doubt particle is still found in New Tibetan—for example, New Tibetan (Lhasa) *mo sū yina <mo sui yin-na>* “I wonder what her family name could be?” *khon-la peša yōna <khoñ-la dpe-išha yod-na>* “Might he possibly have a book?”

¹⁰ Such constructions do operate under the Telegram Principle: an omitted participant is processed as recoverable from context; in conversation, a second-person addressee is inherently recoverable. Thus, generally speaking, *sgoms-sig* “Meditate!” may, without further contextual clues, be processed as a command to the person addressed; of course, one can—

5.1. THE COMMAND PARTICLE

The COMMAND PARTICLE is *-tsig*. This bound particle becomes *-sig* after preceding final *-g*, *-d*, and *-b*; becomes *-zig* after preceding final *-ñ*, *-n*, *-m*, *-r*, *-l*, and open syllables; and becomes *-sиг* after preceding final or postfinal *-s*.

In addition, many transitive verbs have special IMPERATIVE STEMS characterized by aspirated initials, the rounding of the vowel *a* in the root to *o* in the stem, and the inflection suffix *-s*—for example, *thus < TU-s* “gather!” *khums < GUM-s* “kill!” *zos < ZA-s* “eat!” *ñon < ÑAN-s* “listen!” *skyogs < SKYAG-s* “spend!” *los < LTA-s* “look!” *mdzod < MDZAD-s* “do!”¹¹

Since many transitive verbs have such distinctive imperative stems, the command particle is REDUNDANT after some verb stems. It is thus possible, under the Telegram Principle, to find imperative stems without command

and, in Tibetan contemplative poetry, not infrequently does—address oneself in internal conversation. In addition, the addressee may change abruptly: when one interlocutor wishes good luck for the other by saying *bkra-sis ſog* “Let good luck come!” the command is addressed to a third party.

¹¹ However, in any particular text, it is not surprising to find a more familiar present or past stem instead of the more exotic-looking imperative stem, even where the intent is clearly a command—for example, *byed* instead of *byos < BYA-s* “do!” or even a hybrid form such as *ndzos* instead of either the present stem *ndzo* or the imperative stem *zos < DŽO-s* “milk!”. In the text of the biography of Mi-la ras-pa, for example, three out of four manuscripts use the past stem *briſign* when Mar-pa tells Mi-la *žol-gyi mam-pai khyams ka-ba bišu-għis yod-pa bisan-khañ-dañ bišas-pa-zig briſigs* “Build a courtyard as an annex, with twelve pillars and a temple for the fierce deities”; only one manuscript—from Spuñs-thañ in Bhutan—has the grammatically correct reading *rīſigs < RTSIG-s* “build!”

INTRANSITIVE verbs, on the other hand, generally have no distinctive imperative stem at all. Most often the present stem is used in imperative constructions; that the proposition is intended as a command is indicated by context, by the use of the command particle *-tsig* or by the presence of the *ma-* allomorph of the negative particle *mi-* “NOT,” instead of the *mi-* allomorph normally found before the present stem in statements. For example, when Mi-la says to his sister *pe-ta yi-mug ma-lداñ zwa-iſhos zos* “Pe-ta, let not sadness arise! Eat some nettle soup!” the TRANSITIVE verb *zos < ZA-s* “eat!” is clearly an imperative stem; the INTRANSITIVE verb *lداñ < N-LAÑ* “arises” is clearly a present stem, but its function as a command is just as clearly indicated by the *ma-* allomorph of the negative particle before a non-past stem and by the context of the following transitive imperative.

particles;¹² but I have been unable to discern any very systematic distinction between commands with imperative stems and command particles and commands with imperative stems alone.¹³ I do have an impression that commands without the command particle are perhaps more deferential, or more familiar, or at any rate less peremptory, than commands followed by the command particle; at least commands without -*Tsig* seem to predominate in prayers directed to the gods.¹⁴

¹² This is so even where the imperative stem is not phonologically distinctive: for example, we find the imperative stem *khyer* < *KHYER-s* "take!" (identical with the past stem *khyer* < *b-KHYER-s* "took" and future stem *khyer* < *b-KHYER* "will take") when Mi-la says to the wind *ras dga-na ras khyer* "If you want my robe, take my robe!" It is thus true as well for intransitive verbs, which generally have no distinctive imperative stem: in the biography of Mi-la, for example, we find both *ñā-rgyal ma-tshe-zig* "Let not your pride be great!" with the command particle, and *ñāñ ma-thuñ* "Let not your patience be short!" without it.

¹³ In the archaic manuscripts from Central Asia, commands are most often marked with the command particle; in some manuscripts we find the form *-džig* where in later texts we expect to find *-zig*. There is little consistency in the use of imperative stems; for example, the *-s* suffix is often omitted, but the *-sig* allomorph of the command particle is used anyway, as if the final or postfinal *-s* were present. The following are typical examples from the archaic texts—*tshāñ lud-džig zan hyin-tšig, rol-mo rtseg-mo byo-sig* "Give beer! Offer food! Make music and sport!" *tshiga nli yi-ger bris-la gtšig-gis gtšig ston-džig* "Write these words in letters and show them one to the other," *phai ſid thoñ-sig yab-ki mdad-rmañ tshugs-sig* "Make your father's funeral feast, build your lord's funeral pyre!" *g.yag sña ni rtswa zo-sig, rta spyi-na ni tshu nthuñ-sig* "Let the yak eat grass before, let the horse drink water after!" *bya spar-ba ni ma-bzuñ-sig, mišig khañ-mo ni ma-nhub-sig, khyi shag-pha ni ma-bskañ-sig* "Don't grasp at a soaring bird; don't put a roof on a ruined house; don't satisfy a mangy dog!"

¹⁴ Thus, for example, we find this refrain in a prayer written by Kofi-sprul rin-po-tshe—*gsol-ha sdebs-so thugs-dam žal-bžes dgoñs, smon-lam yoñs-su ngrub-par byin-gyis rlobz* "Thus I pray. Remember the vow you made! Grant that my prayer is fulfilled!" And note the following verses by Mi-la ras-pa, in which he chides his own mind, and tells it, without command particles, to behave itself:

*semis ma-spro ma-spro rañ-sar žog
spros-na don-med sna-tshogs dran
ma-yeñs ma-yeñs dran-pa sten
yeñs-na dge-sbyor rluñ-la nñhor
ma-ngrø ma-ngrø ñal-sa gnon
soñ-na gomis-pa rdo-la thug*

In the biography of Mi-la ras-pa, for example, we find commands with imperative stems and command particles such as *mar-pa ū-na-rañ yin phyag-tshol-tsig* "I am Mar-pa. Bow down!" *rgyal-mtshan-gyi rtse-la phyor-tsig* "Hoist it to the top of the banner!" *dbañ-bskur gdams-ñag ston-tsig* "Teach him the initiation and instructions!" *snags-pai mkhar žes bya-ba gru-gsum-pa-žig dgos-pa yin-pas rtsigs-sig* "A magician's tower, properly speaking, should be a triangular one, so build it!" But we also find commands without command particles—for example, *lto gos gžan-nas tshol* "Seek your food and clothing elsewhere!" *dbañ-gral-du ma-sdod* "Do not stand in the initiation line!" *rdzi-bu sems-la de-ltar ltos* "Shepherd, look on your mind like that!" *pe-ta yi-mug malañ zwa-tshos zos* "Pe-ta, don't be sad; eat some nettle soup!"

5.2. POLITE AND ELEGANT COMMANDS

One way to moderate the peremptoriness of a command is to nominalize the proposition and use it as a complement or patient of the imperative stem of a polite or elegant verb—for example, the imperative stem *mdzod* of the honorific verb *MDZAD* "do," or the (irregular) imperative stem *gyis* of the elegant verb *BGYT* "do." Such complements and patients are most often nominalized with *-Pa*—thus the elegant commands *rgyal-bu ma-šor-ba gyis-sig* "Do not let the prince escape!" *on-kyāñ log-lta ma-skyes-pa gyis* "Well, don't get any wrong ideas," where the nominalized proposition is a patient; and *ñai mthus ñan-soñ-du mi-skye-bas dga-bar gyis-sig* "Since, by my magic power, you will not be born in an evil destiny, be happy!" *khyod-rañ ña ma-brdžed-par gyis* "Do not forget me," where the nonnominalized proposition is a complement. But it is also possible to nominalize the proposition with the nominalizer *-gros* "HELP IN PROPOSITION" and use it as the patient of the same polite or

*ma-sriñs ma-sriñs mgo-bo khug
bsriñs-na lag-stoñs niñhal-bar ngro . . .*

Mind!

Don't get busy, don't get busy! Stay in your right place!
Once you've got busy, you think of all sorts of useless things.
Don't wander, don't wander! Stand firm in mindfulness!
Once you've wandered, your skill is scattered to the winds.
Don't go, don't go! Keep to your bed!
Once you've gone, your training smashes on the rocks.
Don't reach out, don't reach out! Bend down your head!
Once you've reached out, your emptiness becomes confused . . .

elegant verbs: Mar-pa's wife asks her husband's disciples *bla-ma r̄mog-pa nkhōr-bt̄šas-kyis ñai žu-ba nbul-grogs mdzod-t̄sig* "Let Lama Rñog-pa and his disciples help me make my request!" and Mar-pa says to Mi-la *dar-ma mdo-sde nbogs-pai mkhar-žig r̄tsig-grogs gyis* "Give a hand building a tower I can give to Dar-ma mdo-sde."

5.3. IMPERSONAL COMMANDS

We also find complement constructions with the anomalous imperative stem *sog* "Come!"¹⁵ These constructions generally function as optatives or IMPERSONAL COMMANDS—for example, *sgrub-la bar-t̄shad med-par sog* "Let it come to pass that there are no obstacles to our meditation!" *bu-lon gtoñ-mkhan-laañ ma-skyes-par sog*, *bu-lon len-mkhan-laañ ma-skyes-par sog* "May you not be born as a moneylender! May you not be born as a debtor!" Such constructions are very old in Tibetan. In the archaic Central Asian manuscripts we find *rta khyod ni khar srab-gyis srabste kha druñ ſu-ba nkhōr-t̄sig*, *rgyab-du sgas stad-de rgyab-du sgal byuñ-šig*, *glo glos mnan-te khoñ-na ſñiñ ñams-par sog-šig* "You, horse—bridled with a bridle in your mouth, let sores form by your mouth! a saddle laid upon your back, let loads be on your back! your side pressed by my side, may your heart fail within you!" In the Tibetan translation of the *Śrīmālādevīśimhanādasūtra* we find *bsod-nams de-yis mgon-po khyod, rtag-tu bdag-gis mthoñ-bar sog* "By that merit may I forever look

¹⁵ Such COMPLEMENT constructions should be distinguished from constructions with two consecutive IMPERATIVE stems, the second of which is *sog* "Come!"—for example, *der ser-ba-t̄sig phob sog* "Come cast down a hailstorm on them!" *la-kha-ba ndi-nams-kyi mi kun gsos sog-t̄sig* "Come on, heal all these men of the mountain tribes!" *ñai nā-roi sku-rgyan-dāñ thugs-dam-nams da-lta-rañ loñs sog-t̄sig* "Come! Get my ornaments and rosary of Nāro right now!" where we find *sog* immediately preceded by the imperative stems *phob* < PHAB "cause to fall! cast down!" *gsos* < GSO "cure! restore! heal!" *loñs* < LAN "get! obtain!" Note, in the same way, *ña-la t̄shāñ mañ-po khyer sog* "Bring me a lot of beer!" *de-na ñai mi-ñan der yod ndug-pa de yañ de dus khrid sog* "Só, at that time, bring with you also that wicked fellow of mine who is there!"

The form *sog* is traditionally considered the imperative stem of the intransitive verb *yoñ* "come." Intransitive verbs, of course, do not normally have imperative stems at all; and, phonologically, the form *sog* has no discernable relationship to the root *yoñ*. In fact, it seems that *sog* is more likely related to a root *SAG of uncertain meaning, now lost, but whose present stem *gšegs < *G-SAG-D has been frozen as the Old Tibetan honorific verb *gšegs* "come, go."

upon you, my lord!" As might be expected, impersonal commands are frequently found in prayers—for example,

*bstan-pai dpal-gyur bla-ma rin-tshen-mams
nam-mkha bzin-du kun-la khyab-par ſog
ni-zla bzin-du kun-la gsal-bar ſog
ri-bo bzin-du rtag-tu brtan-par ſog*

The precious lamas, glory of the teachings—
may they pervade everywhere like the sky!
may they shine everywhere like the sun and moon!
may they be steadfast forever like the mountains!¹⁶

5.4. REQUESTS

In English, not all commands are imperatives: statements (*Shoes will not be worn in the gym*) and questions (*Could you shut that window for me?*) can function as commands as well. In Tibetan, we find first-person statements with the verbs *žu* "request" and *gsol* "pray" used with complements as very polite commands: we will call such constructions REQUESTS.¹⁷ Thus we find, for example, *bla-mas tshos bstan-par gsol* "I pray the lama to teach the dharma," *n̄khor-bai mtsho-las sgrol-du gsol* "I pray that I be delivered from the ocean of transmigration," *bla-ma dgoñ-su gsol* "I pray the lama to think of me!" In the biography of Mi-la ras-pa, the wife of his master Mar-pa pleads with her husband *bu ndi-la tshos-šig gnañ-bar žu* "I ask you to give this boy some dharma! Please give this boy some dharma!" and Mi-la says to his master *thugs-rdžes ndzin-par žu* "I ask that you hold me with compassion!"

¹⁶ Sometimes, of course, the nominalizer *-pa* and adverb particle are omitted, primarily for metrical reasons—for example, *ngro-mams bla-med thar-pai sar phyin ſog* "May all beings reach the incomparable stage of freedom!" *dge-bas ngro kun gnas-skabs mthar-thug-gi, bde-legs rgya-mishoi dpal-n̄byor myur thob ſog* "By this virtue, may all beings quickly attain the glory of the ocean of temporal and ultimate bliss!" Such constructions remain different from the consecutive imperative constructions discussed in the footnote above.

¹⁷ In the archaic translation of the *Saddharmapuṇḍarīka* found in manuscript at Khotan, we find such expressions as *guru-šig* "Speak!" *luñ-stond-šig* "Prophesy!" *ston* "Teach!" By the time of the canonical translation, these same commands were translated as the requests *bstan-du gsol* "I pray you teach," *luñ-bisan gsol* "I pray you prophesy," and *bstan gsol* "I pray you teach," respectively.

Sometimes, using the same construction, a speaker will ask for something which it is entirely within his power to do. This translates a bit strangely into English. Such requests are perhaps best translated as requests for permission,

I am not very interested in the formal possibilities offered by a system like language. Personally, I am above all haunted by the existence of DISCOURSES, by the fact that speaking has taken place as an event in relation to an original situation, and has left traces which continue to exist and exercise, in their very subsistence within history, any number of manifest or secret functions.

—Michel Foucault,
Sur les façons d'écrire histoire

although that certainly does not appear on the surface in the Tibetan. When Mar-pa has Mi-la choose between getting the teachings from Mar-pa and food and clothes from elsewhere, or getting food and clothes from Mar-pa and the teachings from someone else, Mi-la says *lto gos gžan-nas n̄tshol-bar žu* "I ask that I seek food and clothes from elsewhere." When Mi-la wants to return home briefly, he tells Mar-pa

*lan-tšig yul-du gtoñ-bar žu
žabs-phyir myur-du oñ-bar žu*

I ask that you let me go one time to my country;
I ask that I quickly return to your presence.

5.5. LINKED IMPERATIVES

A command is frequently part of a series of instructions, so commands frequently come in bunches. One way that imperatives are linked together is simply by a sequence of command sentences which are made cohesive through common participants, duly omitted in the second sentence—thus *ndžig-ri-en-du yañ-dag-par sgrogs-šig ston-tšig* "Teach it, proclaim it well in the world!" Or a series of instructions can be conveyed through several proposi-

tions with past or present stems linked by conjunction or embedding, and made into a command sentence with a final imperative verb stem and command particle—for example, *gdams-ñag ndi legs-par ñan-nas yid-la zuñs-sig* “Having listened well to this teaching, hold it in your mind!”

By and large, however, we find a sequence of instructions conveyed by a series of implicitly nominalized imperative stems linked by the locus particle *-la*—for example, *sog-la ltos-sig* “Come and see!” *mi de zuñs-la sod-tsig* “Seize that man and kill him!” *loñs-la soñ-sig* “Take it and go!” *skyol-la sog* “Bring him here!” For reasons I do not understand, *-la* is the only particle used when a nominalized proposition with an imperative stem is in the setting slot. I do know the construction is old in Tibetan; in the archaic manuscripts from Central Asia we find, for example, *tshigs ndi yi-ger bris-la gtšig-gis gtšig ston-dzíg* “Write these words in letters and show them one to the other,” *lha-la phyag-ntshol-la tshigs ndi skadu byo-sig* “Let us worship the gods and say these words.”¹⁸

5.6. THE INFORMAL COMMAND PARTICLE

One modal performatives is found with commands: we will call this the COMMAND modal. The particle *-dañ* (and its variant *-?añ*) occurs where a speaker is issuing a command informally or casually: the particle thus constitutes what we will call an INFORMAL COMMAND PERFORMATIVE. This less peremptory command mode seems to appear first in the more colloquial literature influenced by Middle Tibetan, such as the prose portions of the biography and songs of Mi-la ras-pa, perhaps around the fourteenth century; by the middle of the eighteenth century the grammatical commentator Mkhas-grub dam-pa gives the particle *-dañ* simply as an alternative to *-tsig*. In the literature we find such examples as *ri-mo bris-dañ* “Draw a picture, OK?” *sdod-?añ* “Please just stay,” *yid-la byos-sig-dañ bṣad-do* “Just pay attention and I'll explain it,” *khyod-mams legs-par mthoñ-dañ* “Look at it well, OK?” *yid-la byos-sig-dañ* “Hey, pay attention!” Dpal-sprul rin-po-tshe uses

¹⁸ Further examples from the biography of Mi-la include *rdo-rdže ndii dri-ma bum-tshu ndis khrus-la rgyal-mishan-gyi rtse-la phyor-tsig* “Cleanse the dirt on this vajra with this holy water, and hoist it to the top of the banner!” *mīshod-ten ndi-la rab-gras gnis-la rü rtser žog* “Consecrate this reliquary and place it on the top of the mountain!” *za-ma bzañ-ba-žig gnis-la ūai rtsar khrid žog* “Make some good food and bring it to me!” *sñiñ-rus skyed-la sgoms-sig* “Put forth courage, and meditate!” *khru ndi rem-la slogans-sig* “Exert yourself and plough!”

the particle in a story to show the naivete of a country bumpkin who comes to Lhasa City and invites the miraculous image of the Buddha to visit him at home, saying *ñā-rañ-tshoi yul-du šog-dañ* "Hey, come on over to our place!" Mar-pa, showing some rare sympathy for the labors of the young Mi-la, says *mihu-tshen sgal-pa ston-dañ* "Great Magician, let me take a look at your sores." Mi-la's mother, rejoicing at his destruction of their wicked kinsmen, exults *ñā myañ-tsha dkar-rgyan-gyis gos hrul gyon lto ñan zos-nas bui rgyags sbyañs-pa-la don-byuñ ?e-ndug ltos-dañ . . . ñā myañ-tsha dkar-rgyan-la da-lan-las ñams-dga-ba ?e-yoñ ltos-dañ* "I, Myañ-tsha dkar-rgyan, wore ragged clothes and ate bad food, but just look whether there has been a profit from providing my son with provisions! . . . Just look whether I, Myañ-tsha dkar-rgyan, will ever be happier than now!"

6. VOCATIVES

A VOCATIVE is a nominal phrase, added optionally to any sentence, denoting the person to whom it is addressed and signalling the fact that it is addressed to him. A vocative is not part of the propositional structure of the sentence. One function of the vocative is to seek the attention of the person addressed, and especially to single him out from others who may be within hearing: here personal names, titles, or special terms of address may be used to identify the addressee. Another function, perhaps more subtle, is to express the attitude of the speaker toward the addressee, insofar as the vocative phrase incorporates terms of respect, familiarity, or contempt.

6.1. INITIAL AND FINAL VOCATIVES

In Tibetan the majority of such vocatives occur in initial position: for example, Mi-la addresses a stranger with the words *druñ-pa lags* "O Sir . . ." before speaking to him;¹⁹ the wife of Mar-pa similarly first addresses her husband with the title *bla-ma rin-po-tshe* "Precious lama . . ."; and Mar-pa addresses his disciple Tshos-sku rdo-rdže by both geographical and personal names as *rñog-ston tshos-r dor* "Reality Diamond, teacher of Rñog . . ." Mi-la

¹⁹ As Matthew Kapstein has pointed out to me, the term *druñ-pa* usually refers to the closest personal attendant or private secretary of an aristocratic or ecclesiastical hierarch. It may be that Mi-la uses it as a prudent way of addressing a stranger of apparent, but undetermined, rank.

cries out *?a-ma ?a-ma ?a-khui khyim rdibs-nas mi mañ-po ši ndug ltos-dañ* "Mother, mother, look, uncle's house has fallen down, and many people are dead." Such initial vocatives are often separated textually from the following sentence by a vertical stroke or *šad* indicating a slight reading pause—for example, *bkra-śis, tshañ khyer ſog* "Bakra-śis, bring some beer!" *sman-pa lags, ŋa-la bu-phrug med* "O apothecary, I have no children."

Occasionally we find vocative phrases extraposed to the end of the sentence, to the right of the verb and the performance particle. This is not uncommon in commands: for example, in a prayer to Avalokiteśvara, traditionally ascribed to the great king Sroñ-btsan sgam-po, we find a series of lines such as *dag-pai žūn-la skyol-žig spyan-ras-gzigs* "Lead me to the Pure Land, O Avalokiteśvara!" and *rgyun-du thugs-rdžes gzigs-šig spyan-ras-gzigs* "Ever look on me with compassion, O Avalokiteśvara!" Similarly, in the work of the poet Pad-ma dkar-po we find such verses as *sa-smos ser-ba-las sruñ-šig sñags-nišañ-gi nag-po* "Protect my lotus flowers from the hailstorm, O blackness of sorcerors!" and *blo re-ltos tshol-žig skal-ldan-tsho* "Let your minds be full of hope, O my disciples!"

But such extraposition is also found in statements. Pad-ma dkar-po is fond of such constructions; in one poem, he builds a structure upon repeated verses with extraposed vocative phrases—thus *nags-mitha sñegs-pa-la mi-dga stag-phrug-gi gžon-nu* "You have no joy dashing about the woods, O young tiger!" *nam-nphañ spyod-pa-la mi-dga thañ-dkar-gyi gžon-nu* "You have no joy soaring in the sky, O young condor!" *rgyal-khams ngrim-pa-la mi-dga bstan-ndzin-gyi gžon-nu* "You have no joy wandering in the world, O young disciple!" In another poem he uses the repeated refrain *yid gžuñ-nas sgoms-šig pad-ma dkar* "Meditate with heedful mind, O Pad-ma dkar-po!" and then, in the last verse, switches to *dbyañs mišhod-par nbul-lo dkon-mišhog gsum* "I give my song in offering, O Three Jewels!"

6.2. TITLES OF RESPECT

Nominal phrases containing titles of respect are often used vocatively. Among such titles of respect perhaps the most frequently encountered is *lags*, either used by itself in the sense of "Sir . . ." or added to other titles, personal names, epithets, or kinship terms. Thus Mi-la addresses a stranger as *druñ-pa lags* "O Sir . . ." and his master Mar-pa as *bla-ma lags* "O lama . . ." The yogin Mi-la is himself addressed by his disciple Ras-tšuñ-pa as *rdže-btsun*

lags "O reverend sir . . ." The Grand Secretary of Tibet is properly addressed as *sku-gžogs rtse-druñ lags* "Honorable Mister Secretary . . ."

Other titles of respect encountered as vocatives in the classical texts include the secular *gtso-bo* "my lord" and *gtso-mo* "my lady," the religious *rdže-btsun* "reverend sir" and *rdže-btsun-ma* "reverend madam," and the intimate *bžin-bzañ* "handsome sir" and *bžin-bzañ-ma* "fairfaced lady." Such terms may form part of a more complex nominal: in the drama *Snañ-sa od-nbum* we find a man addressing his wife as *tshe-rabs kun-gyi gtan-grogs bžin-bzañ-ma* "O fairfaced constant wife through all my former lives . . ."

Another series of terms, including *sku-gžogs*, *sku-ños*, *sku-mdun*, and *sku-druñ*, is found in the texts, all meaning "your honorable presence" and used in direct address to a social or spiritual superior. The term *sku-gžogs* is often written as <*sku-žabs*> "honorable feet," in imitation of Indic terms of address; but the original orthography is still reflected in such pronunciations as New Tibetan (Dbus) *kušo*.

An important and frequently encountered title of respect is *rin-po-tshe* "precious one," used almost exclusively in addressing high lamas. The Dalai Lama is addressed as *rgya-mtsho rin-po-tshe* "Precious Ocean" or *rgyal-ba rin-po-tshe* "Precious Conqueror," the Panchen Lama as *pañ-tshen rin-po-tshe* "Precious Scholar," and, at one time, the King of Bhutan as *žabs-druñ rin-po-tshe* "Precious Feet."²⁰ We find Mar-pa addressed as *bla-ma rin-po-tshe* "Precious lama" by his wife, by Mi-la, and by other lamas who are his disciples.

Such titles of respect reach their most flowery expression in the Tibetan epistolary style. For example, a letter to the Dalai Lama is sent with the honorific salutation

*ngro-ba lha-dañ bišas-pai mgon-skyabs ápuñ-gñen mtshuñs-zla
ma-mtšhis-par rgyal-bai dbañ-po thams-tšad mkhyen-tšiñ gzigs-pa
tshen-po žabs-stegs gser-gyi ndab-stoñ mam-par bžad-pai druñ-
du . . .*

²⁰ The king of Bhutan was called *žabs-druñ* when Bhutan had a common temporal and spiritual head. Under the present dynasty Bhutan is ruled by a *rgyal-po-tshos-rgyal* "king" and the highest ecclesiastical office is that of *rdže mkhan-po* "lord abbot."

Before the honorable presence of the smiling golden thousand-petal lotus footstool of the great all-knowing all-seeing Lord Buddha who is the peerless friend and refuge of all beings including the gods . . .

6.3. OTHER VOCATIVE EXPRESSIONS

We find other nominals used in vocative phrases to indicate the relative status of the person addressed. Such vocatives may use pejoratives, as when Mi-la says *ñan-tsig dman-mo khyod* "Listen, you lowly demoness!" or *ñan-pa gña-reñs ser-smug gtam ndi ñon* "Ser-smug you wicked stiff-necked one, hear this word!" Other vocatives may use respectful older relative terms, such as *?a-džo* "older brother" and *?a-tshe* "older sister," not infrequently with *lags* or other titles of respect, as in *?a-tshe lags rin-po-tshe* "O precious older sister . . ." Other vocatives may use intimate younger relative terms such as *bu* "son," *tsha-bo* "nephew," *bu-mo mdzes-pa* "darling daughter."

What we can call professional titles are frequently used vocatively—*bla-ma* "lama," *sprul-sku* "incarnation," *mkhan-po* "abbot," *khri-tshen* "abbot," *dge-bšes* "professor," *dbu-mdzad* "head monk," *dge-sloñ* "monk," *mo-btsun* "nun," *lha* "king," *blon-tshen* "minister of state," *sde-srid* "regent," *lha-rdže* "physician," *yon-bdag* "lay patron." Here again we often find *lags* or other titles of respect added to the addressee's professional title.²¹

6.4. THE STRUCTURE OF TIBETAN NAMES

Quite frequently a vocative phrase contains the addressee's name. Since persons—especially eminent persons—may possess several types of names and titles simultaneously, it may be helpful here to discuss the structure of such names as may be encountered in the classical texts.

²¹ We may note here that vocative PLURALS are often formed with *-dag* both in translations from Sanskrit and in classical literature—thus *dge-sloñ-dag* "O monks . . ." *kye bzin-bzañ-dag* "O handsome sirs . . ." *ses-idan-dag* "O learned sirs . . ." *kye grogs-po-dag* "O friends . . ." The interjection *kye-kwa-ka-ye-kwa-ye* is sometimes used to indicate a vocative term, especially in the translation literature, although it is found elsewhere as well—thus *kye lhai lha* "O lord of lords . . ." *kye kha-lo bsgyur-ba* "O helmsman . . ." *bdag-la dgolls-tsig mgon-po kye* "Think of me, O lord!"

6.4.1. Personal names

The vast majority of Tibetan religious names—and the great majority of secular names—consist of combinations of disyllabic terms with auspicious connotations. These terms may denote such auspicious objects as *ñi-ma* “sun,” *zla-ba* “moon,” *rdo-rdže* “vajra,” *rgya-mtsho* “ocean,” *rise-mo* “peak,” *rgyal-mtshan* “banner,” *pad-ma* “lotus,” *nor-bu* “gem,” *señ-ge* “lion,” *rgyal-po* “king,” and *gzon-nu* “prince”; such auspicious qualities as *mthu-stobs* “strength,” *bsod-nams* “merit,” *tshul-khrims* “discipline,” *bstan-ndzin* “adherence to the teachings,” *bzañ-po* “virtue,” *tshos-nphel* “religious increase,” *ngyur-med* “constancy,” *grags-pa* “fame,” *dbañ-phyug* “dominion,” *blo-gros* “intelligence,” *tshe-riñ* “long life,” *yon-tan* “excellence,” *mam-rgyal* “victory,” *bkra-śis* “blessing,” *don-grub* “success,” *phrin-las* “activity,” *ye-śes* “knowledge,” and *śes-rab* “wisdom”; and such divine names as *sañs-rgyas* “Buddha,” *kun-dga* “joy → Ānanda,” *sgrrol-ma* “savioress → Tārā,” *ndžam-dpal* “sweet glory → Mañjuśrī,” *ndžam-dbyāns* “sweet voice → Mañjughoṣa,” *byams-pa* “friendliness → Maitreya.”

And I said, “Hey, pal, what’s going on here? Who are you, anyway?” And he said, “Now, I am the soul doctor. And, you know, language is a virus from outer space. And hearing your name is better than seeing your face.”

—Laurie Anderson,
Difficult Listening

Thus we find such names as *blo-gros rgyal-mtshan* “Intelligence Banner,” *ye-śes rdo-rdže* “Knowledge Diamond,” *ndžam-dbyāns grags-pa* “Sweet Voice Fame,” *tshe-riñ bkra-śis* “Long Life Blessing,” *bsod-nams blo-gros* “Merit Intelligence,” *zla-ba nor-bu* “Moon Gem,” *bzañ-po rgyal-mtshan* “Virtue Banner,” *blo-gros bzañ-po* “Intelligence Virtue,” *ndžam-dbyāns śes-rab señ-ge* “Sweet Voice Wisdom Lion,” *ye-śes mthu-stobs dbañ-phyug* “Knowledge Strength Dominion,” *blo-gros yon-tan rgya-mtsho phrin-las* “Intelligence Excellence Ocean Activity.” We will call such combinations PERSONAL NAMES.

The predominantly disyllabic pattern may occasionally be broken by such monosyllabic components as *dpal* "glory," *nbar* "blaze," *rtsal* "skill," *od* "light," *grags* "fame," or *sde* "lord," as in *phrin-las dpal bzañ-po* "Activity Glory Virtue," *ses-rab nbar* "Wisdom Blaze," *yon-tan ngro-ndul rtsal* "Excellence Converting Skill." Occasionally too we find components of a personal name placed in an explicitly adnominal relationship—for example, *mkhyen-brtsei od-zer* "Light of Knowledge and Love," *bstan-pai rgyal-mtshan* "Banner of the Teachings," *tshos-kyi dbañ-po* "Master of the Dharma," *blo-gros mtha-yas-pai sde* "Lord of Infinite Intelligence."

Personal names are frequently encountered as clipped disyllables formed from the stressed syllables of each of the original components—thus *ndžam-grags* < *ndžam-dbyāñs grags-pa* "Sweet Voice Fame," *dbañ-rgyal* < *dbañ-phyug rgyal-mtshan* "Dominion Banner," *tshos-grags* < *tshos-kyi grags-pa* "Fame of the Dharma," *thub-bstan* < *thub-pai bstan-pa* "Teachings of the Sage," *ñag-dbañ* < *ñag-gi dbañ-phyug* "Master of Speech." Such clipped names may in turn be components in longer sequences: for example, in the personal name *blo-bzañ grags-pa* the first component *blo-bzañ* is a clip of the combination *blo-gros bzañ-po* "Intelligence Virtue"; thus the clipped name *blo-grags* < *blo-bzañ grags-pa* "Intelligence Virtue Fame" is a clip containing a clip.

6.4.2. Types of personal names

A person may possess several personal names in the course of a lifetime. Every child has a CHILDHOOD NAME, often bestowed by a respected elder or lama, and established at a naming celebration; a child may in addition have one or more PET NAMES which can change in the course of time. Mi-la ras-pa's father gives his child the childhood name *thos-pa dga* "Happy to Hear It," since he is so pleased to hear the news of the birth; Mi-la's sister is similarly given the childhood name *mgon-mo skyid* "Lady Joy," as well as the pet name *pe-ta* "Little Leech," by which Mi-la continues to address her even after she is an adult. Sometimes the name includes the day on which the child was born—for example, *ñi-ma lha-mo* "Sunday Goddess," *pa-sañs sgrol-ma* "Friday Tārā." Often this DAY-NAME is only tentative, and a new name is given at the first opportunity to have the child blessed by a lama, although often the day-name sticks anyway. In addition, any of these names can be changed for astrological reasons, if the name in use seems to be attended by bad luck.

When a person enters the monastery, he is given a new name, usually at the time of taking the vows of a novice, although in some cases he may receive a further new name at the time of taking the complete vows of a monk. A typical account of such names is found in the contemporary autobiography of a Sherpa lama, who writes,

btsas-ston yañ rgyas-par byas-nas miñ-la gza-dañ bstun-te, zla-ba bstan-ndzin žes btags ndug-go . . . rañ lo ñer-gtšig-la bslebs-dus bla-ma sañs-rgyas tshos-nphel-gyi druñ-nas so-thar dge-tshul sdom-pai bar legs-par žus-pas, miñ mkhan-poi mtshan-nas drañs-te, sañs-rgyas zla-ba žes btags

After having a big birth party, they connected my name with the day of the week and called me *zla-ba bstan-ndzin* "Monday Adherent" . . . When I turned twenty-one I duly asked the lama *sañs-rgyas tshos-nphel* "Buddha's Dharma Increase" for ordination up through the vows of a novice, and I was given the name *sañs-rgyas zla-ba* "Buddha Monday" after the name of my preceptor.

Similarly, Mar-pa ordains his disciple Mi-la as a novice monk with the name *rdo-rdže ryal-mtshan* "Diamond Banner," after a prophetic dream he had the evening before the two first met.

In addition to this MONASTIC NAME, a monk or layman may receive a BODHISATTVA NAME when he takes his vow to save all sentient creatures; and he may receive from his tantric teacher—or even from the deity itself—a SECRET NAME when he is initiated into the ritual practices of a tantric deity. Thus Mi-la describes the acquisition of his secret name as follows:

nkhor-lo sdom-pa-la yul ñi-šu-rsa bži, gnas sum-tšu-nsa gñis, dur-khrod tshen-po brgyad-kyi dpa-bo-ua:i mkha-ngros bskor-nas khra-lam-me bžugs-pa dños-su mthoñ, dei tshe bla-ma-dañ dkyil-nkhor-gyi lhas mgrün gtšig-tu gsain-mtshan dpal bžad-pa rdo-rdžer btags

I vividly saw the deity Cakrasamvara clearly seated there, surrounded by the gods and goddesses of the twenty-four lands, the thirty-two places, the eight great cemeteries; and at that time the lama and the gods of the mañḍala with one voice gave

me the secret name *dpal bžad-pa rdo-rdže* "Glory Laughter Diamond."

A writer may become known under one or more of these different names, and he may even sign his works with a combination of them. For example, Koñ-sprul rin-po-tshe was given the MONASTIC NAME *ñag-dbañ yon-tan rgya-mtsho phrin-las kun-khyab dpal bzañ-po* "Master of Speech Excellence Ocean Activity Pervasion Glory Virtue," the BODHISATTVA NAME *blo-gros mtha-yas-pai sde* "Lord of Infinite Intelligence," and the SECRET NAME *pad-ma gar-gyi dbañ-phyug phrin-las ngro-ndul rtsal* "Lotus Dominion of Dance Activity Converting Skill." He signed his works with abbreviated forms of his monastic name *ñag-dbañ yon-tan rgya-mtsho* and *yon-tan rgya-mtsho*, and sometimes simply with *guṇa*, the Sanskrit equivalent of *yon-tan*, or with a combination of his secret and bodhisattva names—thus *pad-ma gar-gyi dbañ-phyug blo-gros mtha-yas-pai sde*.

Other personal names may be given for special purposes. After advanced instruction in Sanskrit and poetics, a scholar may be given a GRAMMARIAN'S NAME, which he signs to works on grammar, lexicography, and rhetoric. A religious practitioner who is a *gter-ston* "discoverer of hidden treasures"—and thus able to locate the hidden texts concealed by the ancient Padmasambhava—may, upon his appointment by an already practicing discoverer, be given in addition a special DISCOVERER'S NAME, the particular name having been prophesied by Padmasambhava and appearing in the hidden texts themselves.

6.4.3. Geographical and family names

Individuals are often differentiated by a GEOGRAPHICAL NAME. The person's place of birth or area of major religious activity may simply be prefixed to his personal name, as in *bo-doñ ri-tshen rtse-mo* "Jewel Peak of Bo-doñ," *rtseg dbañ-phyug señ-ge* "Dominion Lion of Rtseg," *sde-dge blo-gros rgyal-mtshan* "Intelligence Banner of Sde-dge." Frequently we find the person's geographical provenance followed by the formative *-pa* "PERSON HAVING TO DO WITH," as in *mar-pa rdo-rdže ye-šes* "Diamond Knowledge the man from Mar," *gñal-pa ñi-ma šes-rab* "Sun Wisdom the man from Gñal," *khams-pa šes-rab rdo-rdže* "Wisdom Diamond the man from Khams." Indeed, a famous scholar or contemplative may be more widely known by his geographical name than by any of his personal names: for example, *Tshos-kyi blo-gros* is widely known simply as *mar-pa* "the man from Mar," *Bio-bzañ grags-pa* as *tsoñ-kha-pa* "the

man from Tsoñ-kha," and Zla-od gžon-nu as *sgam-po-pa* "the man from Sgam-po."

Sometimes geographic affiliations are expressed with the word *ston* "teacher" or *lo-tsā-ba* "translator" suffixed to the person's geographic area: thus we find *rgya-ston gžon-nu señ-ge* "Prince Lion the teacher of Rgya," *žañ-ston bsod-nams grags-pa* "Merit Fame the teacher of Žañ," *go-rub lo-tsā-ba tshos-kyi šes-rub* "Wisdom of Dharma the translator of Go-rub," *ngos lo-tsā-ba gžon-nu dpal* "Prince Glory the translator of Ngos." Such geographic titles are also found in clipped form, as in *stag-lo gžon-nu brtson-ngrus* "Prince Striving the translator of Stag" or *smin-gliñ ngyur-med rdo-rdže* "Unchanging Diamond the lama of Smin-grol monastery." A famous teacher or translator may be widely known by such geographic title alone: for example, Nam-mkha grags-pa is often referred to simply as *mtshims-ston* "the teacher of Mtshims," and Tshul-khrims rgyal-ba is often referred to simply as *nag-tsho lo-tsā-ba* "the translator of Nag-tsho."

Incarnations may have geographical names with the suffix *sprul-sku* "incarnation," as in *bde-thañ sprul-sku blo-bzañ tshul-khrims mam-rgyal* "Intelligence Virtue Discipline Victory the incarnation of Bde-thañ," or *phurbu-ltšog sprul-sku byams-pa tshul-khrims bstan-ndzin* "Friendliness Discipline Adherent the incarnation of Phur-bu-ltšog." Famous incarnations again may be referred to by this geographic title alone: for example, Yon-tan rgya-mtsho is widely known as *koñ-sprul rin-po-tshe*, the term *koñ-sprul* being a clipped form of the geographical name *koñ-po sprul-sku* "the incarnation of Koñ-po," since the monk of whom he was held to be an incarnation came originally from Koñ-po. Similarly, the contemporaneous Ndžigs-med tshos-kyi dbañ-po is widely known as *dpal-sprul rin-po-tshe*, the term *dpal-sprul* again being a clipped form of the geographical name *dpal-dge sprul-sku* "the incarnation of Dpal-dge," since he was held to be an incarnation of Dpal-dge Bsod-nams sbyin-pa.

Sometimes the various incarnations of a single spiritual progenitor are distinguished by geographical names. For example, Ndžam-dbyañs mkhyen-brtsei dbañ-po kun-dga bstan-pai rgyal-mtshan has been held to be incarnate in several different persons simultaneously in several monastic centers: thus we find *rdzoñ-sar mkhyen-brtse ndžam-dbyañs tshos-kyi dbañ-po* "Sweet Voice Master of Dharma the Mkhyen-brtse at Rdzoñ-sar," *dpal-spuñs mkhyen-brtse karma mkhyen-brtsei od-zer* "Karma Light of Knowledge and Love the Mkhyen-brtse at Dpal-spuñs," *dis-mgo mkhyen-brtse rab-gsal zla-ba* "Clarity

Moon the Mkhyen-brtse at Dis-mgo," *rdzogs-tshen mkhyen-brtse gu-ru tshe-dbañ* "Guru Lifepower the Mkhyen-brtse at Rdzogs-tshen," and so on.

Additionally, names may incorporate FAMILY NAMES. The great-great-grandfather of Mi-la ras-pa acquired the name *mi-la* when he conquered an evil demon, who cried out in fear *pha ma mi-la mi-la* "Father! Mother! Woe! Woe!" This name was passed on to his son Mi-la Mdo-ston señ-ge, who passed it on to his son Mi-la Rdo-rdze señ-ge, who passed it on to his son Mi-la Šes-rab rgyal-mtshan, who passed it on to his son called Thos-pa dga. Similarly we find such combinations of family and personal names as *nkhon dkon-mtshog rgyal-po* "Jewel King of the Nkhon," *rgya ye-šes mgon-po* "Knowledge Protector of the Rgya," *myañ šes-rab nbyuñ-gnas* "Wisdom Source of the Myañ." Sometimes family names and geographical names overlap, where a family has the same name as its hereditary estate.

6.4.4. Epithets

In addition to such names, persons may acquire EPITHETS in the course of their lives, and it may be by such an epithet that a person is best known. The epithet may be professional, as in *sde-srid sañs-rgyas rgya-mtsho* "Buddha Ocean the Regent," *dar-han ʔem-tshi ndžam-dbyāñs rgyal-mtshan* "Sweet Voice Banner the Physician of Dar-han," *dga-ldan khri-tshen ñag-dbañ tshul-khrims* "Master of Speech Discipline the Abbot of Dga-ldan," *spyi-khyab mkhan-po bde-tshen rgya-mtsho* "Bliss Ocean the Abbot of Spyi-khyab." Sgam-po-pa is often referred to simply as *dwags-po lha-rdze* "the Physician of Dwags-po," and Mi-la becomes known as *mthu-tshen* "Magician" after he demonstrates his professional abilities to his master Mar-pa:

thugs sñuñ-bai mi mañ-po gri-khar ši-ba gzigs-nas, khyod-la mthu-tshen-po yod zer-ba bden-par ndug gsuñs-nas ña-la miñ mthu-tshen-du btags

He saw many maddened men die at knife-point. He said, "It's true what they say, that you have magic power"; and he gave me the name *mthu-tshen* "Magician."

An epithet may also be honorific, as when the first Black Hat Karma-pa Tshos-kyi grags-pa is known almost exclusively as *dus-gsum mkhyen-pa* "He Who Knows the Past, Present, and Future," or the fifth Black Hat Karma-pa

Tshos-dpal bzañ-po is known almost exclusively as *de-bzin gsegs-pa* "He Who Has Thus Come," an epithet of the Buddha. The name of the great *yogini* Ma-gtšig Lab-kyi sgron-ma combines the geographical name Lab-phyi and the childhood name *sgron-ma* "Lady Lamp" with the honorific epithet *ma-gtšig* "The One Mother." We may note here too that certain general honorific expressions have become specialized as such personal epithets: for example, unless otherwise specified, the expression *džo-bo rdže* "Venerable Lord" refers to Atiša, *rdže-btsun* "Reverend Sir" refers to Mi-la, *rdže rin-po-tshe* "Precious Lord" refers to Tsoñ-kha-pa, and *gu-nu rin-po-tshe* "Precious Guru" refers to Padmasambhava.

An epithet may also be generic. For example, a yogin often bears the epithet *ras-pa* "one who wears a cotton cloth" combined with some individuating component: thus Mgon-po rdo-rdže is called *khyi-ra-ba ras-pa* "Hunter Yigin," after his former occupation; Pad-ma rdo-rdže is called *gliñ ras-pa* "Yogin of Gliñ," after his geographic provenance; the young Thos-pa dga eventually becomes known as Mi-la ras-pa "Yogin of the Mi-la," after his family name. Similarly, Ye-šes rdo-rdže is known as *gtsañ-pa rgya-ras* "Yogin of the Rgya family from Gtsañ," in a clipped form that combines both geographical and family names with his epithet.

A similar generic epithet is *smyon-pa* "madman," used of the crazy and iconoclastic saint of the yogic tradition, as in such names as *dbus-smyon kun-dga bzañ-po* "Joy Virtue the madman of Dbus," or *nbrug-smyon kun-dga legs-pa* "Joy Goodness the madman of the Nbrug." The author of the life of Mi-la ras-pa and the editor of his collected songs began life with the childhood name *tshos-rgyal lhun-po* "Dharma King Mountain," became a novice monk with the monastic name *sañs-rgyas ryal-mtshan* "Buddha Banner," and received the secret name *khrag-nthuñ ryal-po* "Blood-drinking King" from his tutelary deity; but he is best known—and is spoken of in his earliest biography—by the epithet *gtsañ-smyon he-ru-ka* "Heruka the madman of Gtsañ."

An epithet may also be descriptive: such epithets are idiosyncratic to the persons who bear them. Rdo-rdže grags-pa, the disciple of Mi-la ras-pa, is called *ras-tshuñ-pa* "Little Piece of Cotton" because he wears only a small piece of cotton cloth; Mgon-po rdo-rdže is said to have worked so tirelessly for his fellow contemplatives at Tsa-ri that he became known to them as *rdza-khrod boñ-ser* "Yellow Donkey of the Clap pits." Gtsañ-smyon he-ru-ka signed his biography of Mar-pa with the epithet *dur-khrod myul-bai mal-nbyor-pa*

"Yogin Who Wanders in Cemeteries" and his biography of Mi-la with the epithet *nus-pai rgyan-tšan* "He Who Has Ornaments of Bone," while Ndžig-med tħos-kyi dbañ-po—the great Dpal-sprul rin-po-tshe—signed his works with the epithet *?a-bu hral-po* "Ragged Old Fellow."²²

6.4.5. Names and epithets in vocative phrases

Personal names are often found in vocative phrases, used both by friends and intimates of the addressee and by his superiors. It is interesting to note, for example, that in the works of Gtsañ-smyon he-ru-ka the lama Mar-pa addresses his wife Bdag-med-ma by her personal name, while she addresses him by his title as *bla-ma rin-po-tshe* "precious lama." Similarly Mar-pa addresses his disciple Rñog-pa by both family and personal names, using the form *rñog-ston tħos-rdor*, while the disciple again uses *bla-ma rin-po-tshe* in reply.

His instructors in black magic address Mi-la by his personal name *thos-pa dga*, while both Mar-pa and Rñog-pa address him by his epithet *mihu-tšen* "Magician," occasionally with the affectionate prefix *?a-bo* added; Mi-la in turn addresses all his teachers as *bla-ma lags* or *bla-ma rin-po-tshe*. The relation between Mi-la and his own disciples is the same: Rdo-rdže grags-pa addresses his master as *bla-ma rdže-btsun rin-po-tshe* "precious reverend lama" or *rdže-btsun rin-po-tshe lags* "precious reverend sir," while Mi-la

²² The names of horses are also found in classical Tibetan. In the *na-rgyug* "horse race" chapter of the epic of Ge-sar we find a long list of the participating horses and their riders—the equivalent of a Homeric catalogue of ships. Many of these horses, as we might expect, have names referring to their color—for example, *nag-po nbroñ-ndul* "Black Yak-tamer," *nag-khra nphur-šes* "Black-spotted Flyer," *gser-mdoñ ři-mai nkhrul-nkhor* "Gold-faced Magic Weapon of the Sun," *ňañ-ba rtsal-ldan* "Dun Skillful," *stoñ-ri rag-dkar* "Russet-white of the Desolate Mountains," *nphar-ba řia-nag* "Leaping Black-tail." Several horses have names which refer to the wind—*rluñ-nag rdžes-gišod* "Black-wind Tracker," *nor-bu rluñ-ndzin* "Jewel Wind-grabber," *rluñ-gi nkhor-lo* "Wind Wheel"; and a surprising number have names that refer to birds—for example, *khyuñ-nag ldiñ-šes* "Black-eagle Soarer," *rma-byá gdoñ-tšan* "Peacock Face," *gyu-byá rna-khra* "Turquoise-bird Spotted-ear," *duñ-byá gyu-rñog* "Conch-bird Turquoise-mane," *rgya-byá mi-lañ nkhrul-nkhor* "China-bird Unequalled Magic Weapon." A few names seem to have a touch of self-deprecating humor—*ša-rykañ drel-mgo* "Wild-horse Mule-head," *ka-ba khri-skyid* "Pillar Happy-throne." But most of the names are straightforward and charming—*stoñ-ri dar-ndžans* "Desolate-mountain Smooth-as-silk," *lu-gu mžham-šes* "Dances-like-a-lamb," *gañs-ri ldañ-šes* "Glacier Soarer," *me-ri nkhyil-šes* "Fire-mountain Twister," *smu-gu ldiñ-šes* "Floats-like-the-mist."

addresses him not by his personal name but by his epithet *ras-tshuñ-pa* "Little Piece of Cotton."



Figure 12. Charm to protect against demons, ghosts, and vampires, pictured here as worms and scorpions (note the visual puns—*sdig-pa* "scorpion" *sdig-pa* "sin," *sri-srin* "demon" *srin-bu* "insect, worm")

1. EXCLAMATIONS

An EXCLAMATION is a partial sentence—sometimes called a “sentence fragment” or “minor sentence”—that functions as an autonomous unit similar to a sentence. An exclamation may be found anywhere a sentence may be found, either within a discourse or embedded in a proposition as the patient of a verb such as *GSUÑ* “say” or *SÑAM* “think.”

1.1. HYPOTHETICAL EXPRESSIONS

Some sentences, of course, are assertions with exclamatory force. The verbs *LEGS* “be good” and *RUÑ* “be right” are often used in such a way—thus *legs-so* “Very well! Excellent!” *ruñ gsuñs* “All right! he said.” We often find such HYPOTHETICAL constructions as *nus-na śin-tu legs* “If you can do it, very well!” *sgom-tshen kha-rogs sdod-na legs* “A meditator had best stay quiet!” *rgyal-po gžan-gyis bdag-po byed-na mi-legs* “Another king had better not become her husband!” *mi-rñed-na mi-ruñ* “We’d better find it!” *tši-ltar byed-na legs* “What should I do?”

Even stronger exclamatory force is found in hypothetical constructions with the expressions *tši ma-legs-tši ma-nuñ* “What’s wrong with that?”¹ For example, we find *bsam-na tši ma-legs* “What’s wrong with thinking about it? You ought to think about it!” *de nbyuñ-na tši ma-ruñ* “Would that it happened!/Oh, may it happen!” *ndii že-sdañ ndi ži-na tši ma-ruñ* “Best I quiet this anger of his!” *ña rig-pa-dañ ldan-na tši ma-ruñ* “Would that I were wise!”

¹ Compare also the expression *lta-tši-smos-lta-smos-tši-dgos* “what need to say, need I mention, dare I add, to say nothing of, what more of,” as in *ndi-dag ndul-ba lta-tši-smos . . . to say nothing of the conversion of these!* *mir gyur-ba yañ rñed-par dka-na dal-ba phun-sum-tshogs-pa lta-tši-smos* “If it’s difficult to be born as a human being, what then of perfect liberty!”

ñai bu-mo min-na tsi ma-nūñ "Would that she were not my daughter!" *sems-tšan thams-tšad sdug-bsñal-dañ nbral-na tsi ma-nūñ* "Oh that all sentient beings were free from suffering!" *ndi ndra-bai sdug-bsñal nkhur-ba-las nñhi-na tsi ma-nūñ* "Better I should die than bear such suffering!"

1.2. HYPOTHETICAL ELLIPSIS

Such exclamatory hypothetical SENTENCES can become EXCLAMATIONS by omission of the consequent, leaving only the antecedent locus participant in the setting slot, rather like English exclamations in the form *If only . . .* Thus, in addition to, say, *de nbyuñ-na legs* "If it happens, it would be good," we find, simply, *de nbyung-na* "If only it would happen!" and, in addition to, say, *ndi bdag-gi yin-na tsi ma-nūñ* "Would that this were mine!" we find, simply, *ndi bdag-gi yin-na* "If only this were mine!" For example, in the Tibetan translation of the *Karmaśataka* we read *kye-ma ryal-po tshen-po ña blta-bai phyir oñis-na* "Oh, if only the great king has come to see me!" and, in the biography of Mi-la, we find *sems-tšan mañ-po ši-na ntsheñs-te sñam* "I thought happily, 'If only many sentient creatures had died!'"

1.3. EXCLAMATIONS IN -Pa-la

Another form of exclamation consists of a nominalized proposition followed by the locus particle *-la*, yielding what appears to be an autonomous locus participant, indicating an extreme degree of some variable factor, which is expressed by the nominalized verb, usually stative—for example, *khyi tshé-ba-la* "That dog is really big!/How big that dog is!" *gnam sdug-pa-la* "The sky is so beautiful!/What a beautiful sky!" Sometimes the variable factor is expressed by a noun, presumably with an equative *YIN* omitted; for example, when some young girls see the emaciated and ragged body of Mi-la *ras-pa*, one exclaims *sdug-sdug-gi ndra-ba-la* "How miserable he seems!" while another cries out *sñiñ-rdže-ba-la* "What a pity!"

Such exclamations may also be made from hypotheticals: for example, when rebuked by his master, Mi-la cries out *ši-na dga-ba-la* "How happy I would be if I died!" and *sa-la thim-na dga-ba-la* "What happiness to sink into the earth!" Similarly, in one of his songs Mi-la exclaims *sgom-na tshog-pa-la* "If I meditate that's surely enough for me!"

1.4. EXCLAMATIONS IN *-re-*

A compound may become an exclamation when the syllable *-re-* is inserted between its two components—for example, *sñiñ-rdže* “compassion” *sñiñ-re-rdže* “What a shame!” *skyug-log* “disgust” *skyug-re-log* “How disgusting!” Such an exclamation can even be predicated of a participant—for example, *sems-tšan sñiñ-re-rdže* “The poor creatures!” *khyod-rañ sñiñ-re-rdže* “How you are to be pitied!” Or it can be nominalized with *-pa* and used as the modifier of a nominal head—thus *sñiñ-re-rdže-bai sdig-tšan dmyal-bar ltuñ* “The sinner—how to be pitied!—falls to hell.” Other such exclamatory compounds include *ñams-dga* “joy” *ñams-re-dga* “Wonderful!” *blo-bde* “happiness” *blo-re-bde* “What happiness!” *o-brgyal* “fatigue” *o-re-brgyal* “How tired!” *že-ndžigs* “fear” *že-re-ndžigs* “How frightful!” *yi-mug* “despair” *yi-re-mug* “Alas!” Such exclamations have apparently deep roots in the Tibetan language: in an archaic ninth-century manuscript from Central Asia we find the exclamation *o-na bu-re stug-re-bsñal* “Oh my only son, what suffering!”

2. CONNECTIVES

2.1. THE CONNECTIVE *yañ*

The connective *yañ* “EVEN, ALSO” is clearly related to—but is not the same as—the bound adversative conjunction *-yañ* “BUT.” Like the conjunction particle, the connective *yañ* becomes *kyañ* after preceding final *-g*, *-d*, *-b*, and *-s*; becomes *yañ* after preceding final *-ñ*, *-n*, *-m*, *-r*, *-l*, and open stressed syllables; and becomes *añ* or *yañ* after preceding open unstressed syllables. The connective *yañ* occurs within propositions but outside participants; since the connective thus occurs frequently after unstressed particles at the end of participants, we not infrequently find such resulting diphthongs as *-paañ* and *-duañ*.

One function of the connective *yañ* is ADDITIVE: it serves to add the content of one sentence or proposition to the content of a preceding one. The connective generally follows the participant which particularly supplies the additional information: compare *rgyal-po bsod-nams-dañ yañ ldan* “The king has MERIT as well” with *rgyal-po yañ bsod-nams-dañ ldan* “The KING too has merit.”² A connective following the first participant in the proposition can

² Note further examples from the biography of Mi-la ras-pa—*ña-rañ-gi yid-laañ dbañ-skur*

also indicate that the information being added is more general, as in *khyeu de yañ tshe ndas-so* "And then the boy died," *bsad-pa yañ grañs med-do* "And those slain were numberless."³ Connectives in successive propositions can emphasize their parallelism: the young Mi-la tells his prospective master Marpa *lus ñag yid gsum yañ nbul, lto gos tshos gsum yañ bla-ma-la žu* "On the one hand, I offer you my body, speech, and mind; on the other, I ask the lama for food, clothing, and teaching."

Sequential connectives within the same sentence or proposition are similarly additive—for example, *dge-tshul yañ dge-sloñ yañ ndu* "Both novices and monks gather together," *bu yañ bu-mo yañ rgyal-po ñan-pas bsad* "The villainous king slew not only sons but daughters also," *gser yañ dñul yañ mi-sbyin-no* "I will give neither gold nor silver."

Another function of the connective *yañ* is to point out when the information supplied in a sentence or proposition appears improbable or unlikely in light of the preceding text or in light of general knowledge or expectation. Again the connective generally follows the participant which particularly supplies the improbability: compare *ndre-bus rgyal-poañ skrag* "Even the king is scared of the little demon" with *ndre-bus kyañ rgyal-po skrag* "The king is scared even of a little demon." Other examples include *kar-ša-pa ni nbum yañ sbyin* "I will give even 100,000 cowries," *sñar-las kyañ lhag-pa yin* "This is even better than before," *dge-sloñ gtšig kyañ med* "There is not even a single monk," *ña min gžan-tšig yin-na gsod-duañ yoñ* "If it were one other than myself he would even kill you," *rñi-por ma-lon-par smra yañ šes* "Before long he could even speak," *ñed-la šog kyañ mi-zer* "They did not even invite us."⁴

gnañ yoñ sñam-pa byuñ "The thought occurred to my mind also that he would bestow the initiation," *la-las bla-ma mar-paañ zer-žiñ ndug* "There are some who call him Lama Mar-pa as well," *žiñ des ũa bla-ma-dañ mdžal-bai mthun-rkyen byas-pas, žiñ-gi miñ-laañ mthun-rkyen-du tshags* "Since that field served as the fortunate circumstance for meeting my lama, its name came to be Fortunate Circumstance as well," *yum-gyi žal-nas da-lan khyod-rañ yañ dbañ-žig thob-pa byed gsuñ* "The Mother said, 'This time we shall have you too get an initiation.'"

³ The choice of readings, of course, depends on whether the immediately preceding participant is processed as OLD INFORMATION (*khyeu de yañ tshe ndas-so* "And then the boy we have been talking about died") or NEW INFORMATION (*khyeu de yañ tshe ndas-so* "The boy also died, in addition to the other persons we have been talking about").

⁴ This use of *yañ* is often found after a nominalized proposition in the setting slot marked with the locus particle *-na* "In the case that . . ." With *yañ*, this circumstance is

2.2. DISCOURSE CONNECTIVES

One way of achieving textual cohesion is through what we will call DISCOURSE CONNECTIVES—connectives in the setting slot of the proposition which explicitly connect that proposition or sentence to the text that has preceded it. Such discourse connectives may be phrases, such as *de-nas* “thereupon” or *bye-brag-tu* “in particular”; or they may be propositions, such as *ndi lta-ste* “for instance” or *yin-kyāñ* “nevertheless.”⁵ Like the English discourse con-

pointed to as contrary to fact or expectation or desire—thus “Although/Even though/Even if . . .” Note the following examples from the *Legs-par bžad-pa rin-po-tshai gier* of Sa-skyā paṇḍita—*blo-gros tshen-po rgud-na yañ, lhag-par blo-gros stobs-ltan ngur* “Although the wise grow frail, their understanding grows stronger,” *blo-ñan šes-pa mañ-na yañ, rgyu-skar bžin-du gsal mi-nus* “Even if foolish scholars are many, like the planets they cannot illuminate,” *nbyor-ba thob-par gyur-na yañ, bsod-nams med-na ga-la rtag* “Even though you manage to gather wealth, how can it last if you have no merit?” *dam-pa srog-la bab-na yañ, rañ-bžin bzañ-po ga-la ndor* “Though a holy man be in danger of his life, how can he cast aside his inherent virtue?” And note the following verses:

*gañ-na bza-btuñ yod der rgyug
dgos-pai bya-ba btšol-yañ sbros
gtam-dañ bžad-gad šes-na yañ
mdžug-ma med-pai khyi rgan yin*

He runs to where there is food and drink;
though charged with necessary work, he flees.
Even though he knows stories and jokes,
he is an old dog without a tail.

*blo-tshuñ mañ-du ndus-na yañ
bya-ba tshen-po sgrub mi-nus
rīsi rkyañ mañ-du sdom-na yañ
khañ-pai gduñ-ma bzod-par dka*

Even if many foolish people gather
they cannot accomplish great deeds;
even if you tie together many single straws,
it is hard for them to support a house beam.

⁵ Discourse connectives such as *de-nas* “thereupon” or *yin-kyāñ* “nevertheless,” which explicitly refer to the content of the preceding text, can be called anaphoric or BACK-REFERRING connectives. Discourse connectives such as *bye-brag-tu* “in particular” or *ndi lta-ste* “for instance,” which indicate that what follows is linked to the preceding text as an example or specification, can be called INSTANTIATING connectives.

nectives—such as *therefore* or *hence* or *moreover*—Tibetan discourse connectives tend to be stereotyped in form and often archaic in flavor. It is only among discourse connectives, for example, that we find preserved the archaic determiner *o* “THERE”; and we find archaic contractions preserved as well—for example, *on* < *o-na* and *gal* < *ga-la* < *gañ-la*, as in *on-te* “on the other hand” and *gal-te* “if.”

2.3. PHRASAL CONNECTIVES

Many discourse connectives are simply stereotyped nominal phrases, frequently with an explicitly back-referring determiner, used in the setting slot to link that proposition or sentence to the preceding text—thus *de-nas* “thereupon,” *de-la* “in that regard,” *des* “therefore,” *de yin-na* “in that case,” *o-na* “now, well, but,” *gañ yin-na* “in any case.” Such connectives are often adverbs: note such back-referring adverbs as *de lar* “thus,” *de bžin-du* “thus,” *dei phyir-du~de phyir* “for that reason, therefore,” *gañ-gi phyir-du~gañ phyir* “for which reason, wherefore,” and such instantiating adverbs as *spyir* “generally,” *phal-išer* “for the most part,” *bye-brag-tu* “particularly,” *khyad-par-du* “especially.”⁶

2.4. *Yañ* IN THE SETTING SLOT

When *yañ* occurs, stressed, in the setting slot of a proposition, it indicates that all of the information in the following proposition or sentence is to be added to what has gone before; thus stressed initial *yañ* may be glossed as “moreover, further, in addition, also, again, once more”—for example, *yañ blon-pos žus-pa, gtsañ-pa-la mam-pa mañ* “Moreover the minister said, ‘Cleverness comes in many forms.’” In an archaic administrative invoice found at an eighth-century Tibetan garrison in Central Asia, we read *yañ gro*

⁶ Some phrasal connectives with the locus particle *-na* appear to derive from nominalized propositions with omitted verbs, yielding what seem to be double role particles—for example, *dper-na* “for example,” presumably a stereotyped contraction of a phrase such as *dper brdžod-na* “If one would set it forth as an example . . . ,” or *mdor-na* “in brief,” presumably a stereotyped contraction of a phrase such as *mdor bsdu-na* “If one would summarize it as an aphorism” Elsewhere the presumably omitted verb is less clear, but may well be simply *yin*—for example, *de lar-na* “in that case,” *des-na* “therefore,” *de-bas-na* “therefore.”

bre drug phul-te rgyas btab "In addition, six *bre* of wheat were delivered and were sealed"; in the biography of Mi-la ras-pa we find *yañ bla-mas byon-nas, mthu-tshen khyod rtsig-pai mkhar ndi sui yin gsuñ* "Once again my lama arrived and said, 'Magician, whose is this tower you are building?'"⁷

The stereotyped expression *yañ-na* in the setting slot means, for reasons I do not know, "or else, otherwise, on the other hand." For example, Sa-skya pañđita writes *yon-tan kun-rdzogs skye-bo sten, yañ-na tha-mal ngrogs-pa bde* "Adhere to people of perfect virtue; otherwise it is easy to be associated with the vulgar." The connective *yañ-na* is thus often found in the setting slot of a proposition which follows the alternative conjunction *-Am* "OR"—for example, again from Sa-skya pañđita, *mda-yis pha-rol gsod-paam, yañ-na rañ-nid ntshag-par ngyur* "An arrow either kills the other person or else is itself broken," *mkhas-pa gžan-la bšad-paam, yañ-na ži-bai nags-su sgrub* "A wise man is either a teacher to others, or else meditates in a peaceful forest." Sometimes the connective *yañ-na* is found in sequential setting slots to offer a series of alternatives—for example, Mar-pa offers to Mi-la the choice *yañ-na lto-gos ster tshos gžan-nas tshol, yañ-na tshos ster lto-gos gžan-nas tshol* "Either I give you food and clothing and you seek the dharma from elsewhere, or I give you the dharma and you seek food and clothing from elsewhere."

The connective *yañ* is also part of several back-referring phrasal connectives—*de yañ~deañ* "in that regard," *gžan yañ* "furthermore," *on kyañ* "nevertheless," *yin-naañ* "anyway," *de ltar-na yañ* "in any case," *gañ ltar-na yañ* "in any case." After Mi-la has told his prospective master Mar-pa his whole sad history, Mar-pa says, *ndug gañ ltar-naañ lus ñag yid gsum nbul zer de bzañ*

⁷ The expression *yañ-yañ*—or *yañ-du yañ-du* or *yañ-nas yañ-du*—similarly means "again and again"—for example, in the following verse by Sa-skya pañđita, who writes,

*blun-pos sog-pai sdug-bsñal-ñid
myoñ-gi spyod-pai bde mi-myoñ
yañ-yañ ñul-žiñ ltu-ba-yi
nduñs-pai nor ni byi-ba ndra*

Fools taste the pain of gathering
but do not taste the pleasure of spending;
the wealth of a miser who again and again
sneaks in and looks at it is like that of a rat.

"Okay. In any event, I like the part where you offer me your body, speech, and mind."

2.5. PROPOSITIONAL CONNECTIVES

Some discourse connectives are stereotyped propositions followed by conjunction particles, which connect the second member of the conjunction to the preceding text. The adversative conjunction *-yañ* "BUT" is found in such stereotyped expressions as *yin-kyāñ* "nevertheless" and *gañ yin-kyāñ* "in any case"; the coordinating conjunction *-ste* "AND" is similarly found in *ndi lta-ste* "for instance," *de bžin-te* "in that case," *da-ste* "henceforth," and *tši-ste~de-ste~on-te~gal-te* "if." Note also the compound stereotyped expressions *tši-ste-na~on-te-na~gal-te-na* "but if, if however, even supposing that."

3. SENTENCES AS PATIENTS

It is possible for a SENTENCE to function as the patient of certain events, such as those expressed by such verbs as *gsuñ* "say," *ZER* "say," *sñam* "think," *dri* "ask," *žu* "request," *šes* "know," *lta* "see," and *rtoG* "examine." That such patients are sentences rather than propositions is shown by the presence of sentence-final performance particles before such verbs—for example, *šar-phyogs-nas oñ-ño šes* "They came from the east, I know," *ltšeb-bam ltšeb-bam sñam* "I thought, Shall I kill myself? Shall I kill myself?" *ña-la tšañ mañ-po khyer-žig gsuñs* "Bring me a lot of beer!" he said."

The proposition containing a sentence as its patient participant can in turn be nominalized, a device of which *Gtsañ-smyon he-ru-ka*, among others, was fond; for example, in his Mi-la ras-pa cycle, we find such a nominalized proposition functioning as a nominal HEAD in *khyod-la mthu tšhen-po yod zer-ba de bden-par ndug* "It is true what they say, that you have great magic power," and as a nominal MODIFIER in *mi-la ras-pa-la gser yod zer-bai mi-mams-kyi khar skyag goñ-žig tshug-tšig* "Put a piece of shit in the mouths of those who say Mi-la ras-pa has gold!"

Sometimes such sentential patients are quite brief, and the reader must be alert to recognize a sentence even in a single word—for example, *nuñ lags-sam žus nuñ gsuñs* "'Is it all right?' I asked. 'All right,' he said," *tshog-gam sñam-na mi-tshog* "If you're wondering, Is it permitted?—well, it isn't," *khyed-rañ-la*

śog gsuñ-ba ndug "He says to you, 'Come!'" *ñed-la śog kyañ mi-zer* "They did not even invite us," *yin zer sñon* "He said, 'It is,' and lied," *dgös-so sñam* "I thought, I have to." Nominalized propositions with sentential patients can be similarly laconic—thus *gyis zer-bai gzugs* "images regarding which it was said, 'Make them!'" or even *nbras-bu tshur śog-gi yid-smon* "a wish, 'May the fruit of this return to me!'"⁸

3.1. QUOTE OPENERS

Several expressions are used in the setting slot of a proposition to indicate that an immediately following sentence is the patient of a final verb of speaking: these expressions are conveniently called QUOTE OPENERS. One such quote opener is the expression *na-re*, of uncertain origin, which immediately follows the identification of the speaker; the speaker has no overt role particle, even with a transitive verb. For example, in the Tibetan translation of the *Abhidharmakośabhāṣya* by Vasubandhu, the various competing philosophical positions are set forth with such quote openers as *kha-tsig na-re* "Some say . . ." *gžan-dag na-re* "Others say . . ." *sñon-gi slob-dpon na-re* "Masters of the past have said . . ." *mdo-sde-pa-mams na-re* "The Sautrāntikas say . . ." *bye-brag-tu smra-ba-mams na-re* "The Vaibhāṣikas say . . ." *kha-tshe-ba-mams na-re* "The Kashmirians say . . ." *nub-phyogs-pa-dag na-re* "The Westerners say . . ." Note the following examples from the biography of Mi-la ras-pa, where we find *la-la na-re bden-pa bden-te da-lan ha-tšañ drag zer* "Some said, 'Truth is truth, but this is too much,'" or *r̥gan-pa-mams na-re mo bsad-pas tši-la phan . . . zer* "The elders said, 'What benefit will it be to kill her?'"

Other quote openers are more clearly adverbs or locus participants—for example, *ñai yid-la . . . sñam* "In my mind, I thought . . ." *ndi skad-du . . . zer* "This, in words, he said . . ." *ndi sñam-du . . . bsams* "This, in his mind, he thought . . ." Where the quote is from a text, the source is cited with the particle *-las* (and often with the final verb *byuñ* "occur, appear")—thus *mdo-las* "From the scripture . . ." *ndul-ba-las* "From the ecclesiastical laws . . ." *dbu-ma-la ndžug-pa-las* "From the *Madhyamakāvatāra* . . ." or even such

⁸ A sentential patient differs from a complement construction with the same verb. For example, *tshos gnañ zu* "Bestow the dharma, I ask" is a different construction than *tshos gnañ-bar zu* "I ask that you bestow the dharma," and *jez smras* "I know," he said" is a different construction than *jez-su smras* "He said that he knew."

combinations as *tshos mñon-pa-las ndi skad-du* "From the abhidharma, this, in words . . ." Quote openers with the honorific word *žal* "mouth" indicate either a direct quote or an oral tradition descended from the indicated person—for example, *yab-kyi žal-nas bla-mai bka bsgrub dgos gsuñis* "My master said, 'One must accomplish the lama's command,'" *bla-mai žal-nas, khyed bud-med blo-mo zer-ba bden-par gda gsuñis* "The lama said, 'The saying is true, that you women are sharp-witted,'" *rdže-btsun-gyi žal-nas, ñan-pai rmi-lam mthoñ-ba bžin ma-dañ nphrad-pai skal-ba ma-byuñ gsuñis* "The Reverend Master said, 'As I saw in my inauspicious dream, it was not my fate to meet with my mother.'"

When a large chunk of text is to be quoted, such as when the speaker sings a song or gives a metrical peroration, the quote opener may be marked with the statement particle *-o*. When Mi-la is about to sing, he narrates *glu ndi blañis-so* "I took up this song," often with a brief indication of the nature of the song—for example, *rañ-la ltšag-ndebs-kyi glu ndi blañis-so* "I took up this song of self-reproach," *bde-ba lñai glu ndi blañis-so* "I took up this song of the five pleasant things," *mñhi-ma nkhrug bžin-pai ñañ-nas glu ndi blañis-so* "In a state close to tears, I took up this song."⁹ In the archaizing chronicle *Rgyal-rabs gsal-bai me-loñ*, the putatively historical characters frequently make long metrical speeches to each other, and we find such highly stereotyped quote openers as *ndi skad zer-ro-ndi skad byas-so* "This, in words, he said . . ." *ndi skad tses gsol-to* "This, in words, he thus besought . . ." *ndi skad tses bka tsal-lo* "This, in words, he thus commanded . . ."

3.2. THE QUOTE CLOSER *Tšes*

How does a reader know when a quote is finished? One way is by noting the verb of speaking immediately following its sentential patient—for example, as when Mar-pa and Mi-la have the following interchange:

*mar-pa byon-nas kun-la gzigs-riog žib-mo mdzad-nas, bu-tšhen
gsum-pos bsgril-bai rdo de-la phyag-mdzub btsugs-te, mthu-tšhen
rdo ndi ga-nas byuñ GSUÑ, thugs-sras bu-tšhen-mams-kyis sku-
rtsed-la bsnams byuñ-ba lags žus-pas, o-na khoñ-tshoi rdos
khyod-kyi mkhar-las-kyi go mi-tshod, rdo ndi thon-la dañ-poi sar*

⁹ When Mi-la sings to a superior, he says *glu ndi phul-lo* "I offered up this song." When a superior sings to Mi-la, Mi-la narrates the event honorifically as *mgur ndi gsuñis-so*.

skyol GSUÑ, mkhar ndi mi-bšig-pai žal-bžes yod žus-pas, de yod-de . . . kun bšig-pa ni min rdo ndi thon-la rañ-gnas-su skyol GSUÑ

Mar-pa came and made a careful inspection of everything. He pointed to the stone the three disciples had rolled up. "Magician, where did this stone come from?" "Your three disciples brought it in sport." "Well, their stone is inappropriate for your tower work. Pull out this stone and take it back to its original place." "You promised this tower would not be destroyed!" "So I did. But this is not to destroy the whole thing. Pull out this stone and take it back to its own place."

I have capitalized the verbs of speaking in this passage for ease of reference. Notice how easy it is to keep track of who is speaking at any time in this exchange. The first speaker must be Mar-pa, because he addresses the other as *mthu-tshen* "magician," the epithet by which Mi-la was then known; then a turn by Mar-pa is indicated by the honorific verb of speaking *GSUÑ* "speak," and a turn by Mi-la by the humble verb of speaking *ŽU* "request."¹⁰

But, in addition, the particle *Tšes* can be used to indicate that a previous quoted discourse has ended, and thus, too, to mark a preceding discourse as attributed to one other than the present speaker—for example, from the Tibetan translation of the *Madhyamakāvatāra* by Candrakīrti, *ndi gñis-ga rgyu med-par ngyur-ro, žes mšad-pa ni, ngags-na rkyen yañ gañ-žig yin* "And what are the grounds for refuting those who contend, 'These both are without cause?'" or, from the *Legs-par bšad-pa rin-po-tshhei gter* by Sa-skya pandita, *sgom-na thos-pa mi-dgos žes, blun-po blo-rgya tshuñ-nu smra* "If you meditate you need not have learning, say fools of little intelligence."¹¹

¹⁰ This passage, by the way, contains an interesting little textual puzzle. The blockprint from Spo in Khams has the reading *gzigs-tog žib-mo*, while those from Bstan-rgyas-glñi in Lhasa City and from Bkra-sis lhun-po have the reading *gzigs-tog dga-mo*, and that from Spuñi-thall in Bhutan has the reading *gzigs-riog dga-mo*. There can be little doubt that the correct reading of the first word is *gzigs-riog* "inspection, examination," presumably a secondary honorific of *riog-pa* < RTAG "examine, consider, search into." But was this inspection originally *žib-mo* "exact, precise, thorough" or *dga-mo* "happy, cheerful"? I certainly think *žib-mo* makes more sense in this context; but I must confess that assuming that reading to be original makes a hash out of any reasonable filiation of the texts.

¹¹ The particle *Tšes* "THUS" should—in parallel with the particles *-Tšig* and *-Tšiñ*, which begin with the same morphophoneme *Tš*—become *tšes* after preceding final *-g*, *-d*, and *-b*;

When the particle *tṣes* is present, also, the verb of speaking may be less explicit than, say, the verbs *TŠAD* "contend" and *SMRA* "say" in the preceding two examples—thus, again from Sa-skyā paṇḍita, *ñan-pa gžan-don sgrub-bo žes, sñad btags-nas ni sdig-la sbyor* “‘We act for the sake of others,’ falsely say the wicked, and stick to sin,” or *ndi bṣes ndi ni dgra-bo žes, blo-gros tshuñ-mams so-sor nbyed* “Fools make distinctions—this is a friend, this an enemy,” or

*bdag-gis bya-ba ma-zin-pas
re-žig de-riñ khyod bžugs žes
mtšhi-mas brnañ-te gsol btab-kyañ
mtšhi-bdag btšos-su ga-la ruñ*

“I have not finished my work,
so wait, today, just a little while.”
Though one thus pray, choked with tears,
how can the Lord of Death change his mind?

Indeed, when the particle *tṣes* is present, there need be no explicit verb of speaking at all, the particle alone sufficiently indicating that the preceding discourse is a quotation. Note the following examples from Sa-skyā paṇḍita:

become *žes* after preceding final -ñ, -n, -m, -r, -l, and open syllables; and become *tṣes* after preceding final and postfinal -s. However, manuscripts not infrequently have *žes* or *tṣes* after a preceding syllable-final -s, rather than *žes*, probably because the latter allomorph looks confusingly like a stem of the verb *SES* “know.” Thus, for example, many blockprints of the *Legs-par bṣad-pa rin-po-tshai gter* by Sa-skyā paṇḍita give the reading *žes* in, say, *sgom-na thos-pa mi-dgos žes* “If you meditate, you don’t need learning, they say,” rather than the “correct” *sgom-na thos-pa mi-dgos tṣes*, which could easily be read as “If you meditate, you don’t need learning, they know.”

The particle *tṣes* seems clearly related to the verb *TŠHE* “speak, say.” The particle has retained significant traces of verbiety: it can, apparently, be nominalized, as in *sñun žes-pa nad-kyi miñ yin* “The word *sñun* is a term for disease”; it can be followed by a conjunction, as in *rañ-la ñan-sems med tṣes-te, pha-rol kun-la yid mi-brtan* “You can say, ‘I have no bad thoughts myself’; but don’t trust anyone else”; it can be followed by a performance particle, as when a quote ends, simply, *tṣes-so*. A nominalized *tṣes* is frequently found at the conclusion of a blockprint or manuscript, in the stereotyped expression *tṣes pa ñi . . .* or *tṣes-pa ndi yañ . . .* which marks the conclusion of the text proper and the beginning of the colophon.

*ṣñiñ-la khon-du sdañ bzuñ-nas
kha-la tshig-bzañ smrao žes
drañ-sroñ gdug-pai gdams-ñag-ste
dam-pai tshul-dañ ngal-ba yin*

"Hate firmly in your heart,
and speak good words in your mouth."
This is the teaching of a vicious sage;
it contradicts the way of the holy.

*dug-gi rtsa-ba ndon-pa ltar
dgra-bo rtsad-nas bišad-do žes
rgyal-poi lugs-las nbyuñ-mod-kyi
bu bžin bskyañs-nas bu bžin byed*

"Tear out your enemy by the roots
as you would tear out a source of poison."
Though this is found in the book of kings,
if you protect someone like a son, he will act like a son.

And the particle *t̄ses*, without specific attribution to a source, can indicate simply that the preceding statement is being reported as hearsay, or as based upon tradition; for example, in the Ge-sar epic, we read the following description of a magical child—*n̄bu r̄siñ-po phru-gu bde-mo-žig-la gyur-te, n̄ima-la btañ-na žu t̄ses, grib-n̄khyags-la bor-na n̄khyags t̄ses* "The coarse worm became a tender child: if put in the sun would melt, they say; if left in the shade would freeze, they say."

The expression *t̄ses bya*, with the future stem of the verb *BYA* "do, say," (and the elegant equivalent *T̄ses BGYI*, with the future stem of the verb *BGYI* "speak, say") follows a nominal with the meaning "be called, be named"—for example, Sanskrit *tenocyante kuśalā dharmā iti* Tibetan *des-na dge-bai t̄shos-mams ſes byao* "Therefore they are called 'virtuous elements.'" This expression is frequently nominalized as *t̄ses bya-ba* (and the elegant equivalent *t̄ses bgyi-ba*) and modifies a nominal head with the meaning "so called, thus named"—for example, Sanskrit *bhūmir iti gati-viṣayaḥ* Tibetan *sa žes bya-ba ni go-skabs-kyi yui-te* "What is called 'earth' is the realm of extension," Sanskrit *moho nāmāvidyā* Tibetan *rmoñs-pa žes bya-ba ni ma-rig-pa-ste* "The term 'delusion' means ignorance," *mañ-nbyor-gyi dbañ-phyug yul gña-nam grod-pa phug žes bya-bai bsti-gnas dam-pa-na bžugs* "The Lord of Yoga dwelt in the holy pilgrimage place named Stomach Cave in the country of Gña-nam."

The nominal *tṣes bya-ba* is also often found in book titles—for example, Sanskrit *Ārya-saṃdhī-nirmocana-nāma-mahāyāna-sūtra* Tibetan *sphags-pa dgoñš-pa ñes-par ngrel-ba žes bya-ba theg-pa tshen-poi mdo* “The Noble Mahāyāna Scripture entitled Clarifying the Intention,” Sanskrit *Subhāṣita-ratna-nidhi-nāma-śāstra* Tibetan *legs-par bśad-pa rin-po-tshai gter žes bya-bai bstan-btšos* “Treatise entitled Precious Treasury of the Well-spoken,” *mal-nbyor dbañ-phyug dam-pa rdže-btsun mi-la ras-pai mam-thar thar-pa-dāñ thams-tshad mkhyen-pai lam ston žes bya-ba* “The Biography of the Holy Lord of Yoga, the Reverend Mi-la ras-pa, entitled Showing the Way to Freedom and Omnipotence.”

Another member of this family is the stereotyped expression *tṣe-na* “If one says . . .”¹² The expression is first found in the translation literature, especially of Sanskrit commentaries, where it marks both rhetorical questions and statements by philosophical opponents which are to be refuted. For example, in the Tibetan translation of the *Madhyāntavibhāgaṭikā* by Sthiramati, we read the quoted statement *tshos-mams rañ-bžin-gyis od gsal-ba-ñid-du mi-ruñ-ño že-na . . .* “If one says, ‘It is incorrect that events are inherently colorless light . . .’” or, in the Tibetan translation of the *Abhidharmakośabhaṣya* by Vasubandhu, *de lta-na o-na ni mam-par ſes-pai khams drug-po-dag nañ-gi yin-par mi-nyur-te, de-dag yid-kyi khams-ñid-du ma-gyur-pa ni sems-kyi rten-du mi-nyur-ro že-na . . .* “If one says, ‘Well, in that case, the six fields of perception are not internal, and, not being within the mental field, they are not a basis of thought . . .’”

However, it is much more common in the translation literature—and especially in the later classical texts—for *tṣe-na* to be preceded by a question. Such a question can be an information question—for example, from the *Madhyāntavibhāgaṭikā*, *gal-te tshos-mams rañ-bžin-gyis od gsal-ba-ñid yin-na dži ltar sñar kun-nas ñon-moñš-pa physis mam-par byañ že-na . . .* “If one asks, ‘If events are inherently colorless light, how can they first be obscured and then cleansed?’ . . .” or, from the *Abhidharmakośabhaṣya*, *rluñ-la kha-dog dži ltar yod tṣe-na, don ndi ni dad-par bya-ba yin-gyi rdžes-su dpag-par ni ma-yin-no* “How can air have color? This is a matter of faith, and not a matter for investigation.” Or it may be a yes-no question—for example, from the *Abhidharmakośabhaṣya*, *mig kyañ lus-kyi dbañ-po bžin-du yul de phrad-pa-žig yin-nam že-na . . .* “If you ask, ‘Is the eye, too, something that contacts its

¹² The expression *tṣe-na* is, again, clearly related not only to *Tṣes* “THUS” but also to the verb *TSHÉ* “speak, say.”

object, like the sense of touch?" . . ." or *ndi-la don-mams kyañ dbañ-byed-pa ma-yin-nam že-na* . . . "If one asks, 'As for that, aren't external objects also organs?' . . ." Indeed, the occurrence of *Tše-na* with questions was sufficiently expected that it became a way of marking an indefinite determiner as interrogative: a proposition such as *ndi-la stoñ-pa-ñid gañ yin že-na* in the *Madhyāntavibhāgañikā* is, context aside, clearly to be read as "As for that, what is emptiness?"

3.3. QUESTIONS AS PATIENTS

As we have seen, question sentences can be patients of verbs of speaking—for example, *ña gañ za zer ñu-žiñ ndug* "What will I eat?" she said, weeping," *mthu-tshen las tsi byed-tsiñ ndug gsuñ* "He said, 'Magician, what work are you doing?'" *su yin dris šog* "Come ask, 'Who is it?'" *gar soñ gsuñ* "Where did he go?" he said." But, in addition, question sentences can occur as the patient of certain verbs which are not verbs of speaking—for example, *LTA* "see," *STON* "show," *SES* "know," *RTAG* "examine," *DRAN* "remember." With information questions the interpretation of such constructions is fairly straightforward—for example, *ndi GAÑ yin ñas brtag* "I will find out WHAT this is," *na-bun NAM yal mi-šes* "We do not know WHEN the fog will lift," *SU yin blta* "We will see WHO it is," *rmi-lam-la byuñ-sa med-pas TŠI yin mi-šes* "Since dreams have no meaning, I don't know WHAT this one is." With yes-no questions the analysis is slightly more complex.¹³

¹³ Two different analyses are possible here. Look at three propositions from a poem by Lo-ras-pa—*na-bun NAM yal mi-šes* "We do not know WHEN the fog will lift," *sbrañ-rtsi SUS spyod mi-šes* "We do not know WHO will use the honey," *ndis phan 2E-thogs mi-šes* "We do not know WHETHER this will bring profit." There is every reason to believe that the author felt these constructions to be parallel. Now one analysis—the one proposed here—takes, say, *na-bun nam yal* as a question sentence "When will the fog lift?" functioning as the patient of the verb *SES* "know"; this analysis derives the reading "We do not know when the fog will lift" from the reading "When will the fog lift? We do not know." The other analysis—initially attractive—would take *na-bun nam yal* as a shortened form, without the *-pa*, of a relativized proposition modifying an omitted head understood to be something like *dus* "time"; this analysis derives the meaning "We do not know when the fog will lift" from an underlying *Ø [(na-bun nam yal)-pa]-Ø mi-šes* "We do not know (the time) when the fog will lift."

The second analysis, I think, cannot deal with a proposition such as *ndis phan 2E-thogs mi-šes* "We do not know whether this will bring profit." The analysis proposed here takes *ndis*

When a yes-no question is the patient of such a verb—and not when it is the patient of a verb of speaking—the question particle *-am* after the verb can optionally be replaced by the particle *?e-* BEFORE the verb: thus, for example, we find both *bden-par ndug-gam brtag* and *bden-par ?e-ndug brtag* “We will find out whether it is true.” Frequently the alternative nature of the question sentence is made explicit in such a construction—thus, for example, *?a-khu šiam ma-ši blta* “I will see whether or not my uncle has died,” *?a-ne skyid-dam mi-skyid blta* “I will see whether my aunt is happy or not”; or, with *?e-* replacing *-am* in the first of the two alternatives, *?e-nus mi-nus mi-šes* “I do not know whether or not we can.” Note the following examples of embedded yes-no questions with the prefix *?e-* from the biography of Mi-la ras-pa—*tshañ-žig ?e-gnañ ltos* “See if they will give us some beer,” *res yar byon-nas bla-ma-la žu-skabs ?e-ndug bltas* “Some of them went up and saw whether the lama was in a mood to listen,” *khyed-dañ ?e-phrad mi-šes* “I don’t know if I will meet with you again,” *khañ-pa ?e-nphrod tše-na . . .* “If you ask whether this house will prosper . . .”; and, with *?e-* replacing *-am* in the first of two alternatives, *ñai gdams-ñag sgom nus-na tshe ndir sañs ?e-rgya mi-rgya yañ sion-pa yin* “This doctrine of mine is one that will show, if you can meditate on it, whether or not you will become a Buddha in this lifetime.”

phan ?e-thogs as regularly derived from a question sentence *ndis phan thogs-sam* or even *ndis phan thogs-sam mi-thogs* “Will this bring profit?” when it functions as the patient of a verb such as *šes* “know.” I am not at all sure how the second analysis would even begin to handle a proposition such as this. In fact, I think the second analysis has other problems as well.

In the biography of Mi-la ras-pa we find *nus-pa su tše-ba blta* “We will see who is more able.” The nominal *nus-pa* must here be interpreted as having a human referent, because it is related syntactically to *su*—thus, in this proposition, *nus-pa* “person having ability” < *NUS* “be able.” Under the second analysis, the proposition would be read as *nus-pa [(su tše)-pa]-θ bta*. In other words, it would be read as having, explicitly, both the *-pa* and the head of the relative construction which were omitted in, say, *na-bun nam yal*. Under this reading, the nominal head *nus-pa* “person having ability,” however modified, would be the patient of the verb *tše* “see.” But this is, I believe, an incorrect reading of the proposition: the speaker is not predicting that we will see an able person, even a great one, but rather that we will see the outcome of a decision as to which person is more able than the other. Under the first analysis, on the other hand, *nus-pa su tše-ba* would be read as the question sentence “Which person-having-ability (is) the greater one?” functioning as the patient of the verb *LTA* “see,” with the patient sentence having the equative verb unsurprisingly omitted; this analysis derives the reading “We will see who is the more able” from the reading “Which person-having-ability is the greater one? We will see,” which effectively embodies the underlying sense of choice without invoking any special rules.

To show that alternative questions and constructions with *?e-* are virtually interchangeable as patients of these verbs, we can compare two different versions of one song, traditionally attributed to Mi-la ras-pa. One version is found in his biography by Gtsañ-smyon he-ru-ka, and the other is found in the *Bra-brgyud mgur-mtsho*, an anthology of the mystic songs of the Bka-brgyud masters. These two versions differ in several interesting ways; but note in particular that, in the following parallel verses selected from the poem, one version will have a yes-no question with *?e-* and the other with *-Am*:

Mi-la mam-thar

*ma-rgan lus-kyi sgrom-bu
de, da-lta sku-khams ?e-bzañ
blta*

The old mother who was the container of my body—I will see if her health is now good.

*bšos-žiñ or-mo gru-gsum
de, da-lta ndžag-skya ?e-
sphyur blta*

The food field Or-mo Triangle—I will see if it is now overgrown with pale grass.

*dam-tšhos dkor-mišhog
brtsegs-pa de, dus da-
lta thigs-pas ?e-brduñs
blta*

The precious holy dharma stacked up—I will see if it has now been ruined by raindrops.

*mtšod-gnas dkor-mišhog
lha-nbum de, da-lta bžugs-
sam ma-bžugs blta*

Bka-brgyud mgur-mtsho

*ñā-yi ?a-ma lus-kyi sgrom-bu
de, dus da-lta žig-gam ma-žig
blta*

My mother who was the container of my body—I will see whether or not she has perished.

*gšoñ-žiñ or-mo gru-gsum-
la, ndžag-skya phyur-ram
ma-phyur blta*

As for the valley field Or-mo Triangle—I will see whether or not it has now been overgrown with pale grass.

*dam-tšhos glegs-bam
rgyas-pa de, dus da-lta
bžugs-sam ma-bžugs blta*

The numerous books of holy dharma—I will see whether or not they now remain.

*bla-mišhog dkor-gñer lha-
nbum de, dus da-lta sku-
khams ?e-bzañ blta*

The priest Dkon-mtshog lha-nbum—I will see whether or not he now remains.

The priest steward Lha-nbum—I will see if his health is now good.

4. FIGURES OF SPEECH

4.1. METAPHOR

Metaphor is one way of manipulating the semantic content of participants; metaphor can thus have syntactic consequences, even though it is not itself created syntactically. Moreover, metaphor can function across sentences: an extended metaphor is a device of textual cohesion, as much as any connective.

Some metaphors are lexical. Note the expression *thag tSHAD* “cut the rope,” for example. Mi-la ras-pa says *bdag ūe-du-dañ nbrel-thag btšad* “I have cut the rope that binds me to my family.” One can *re-thag tSHAD* “cut the rope of hope” and thus give up one’s plans; one can *o-thag tSHAD* “cut the rope of milk” and thus wean a baby. Most important, one can *blo-thag tSHAD* “cut the rope of mind” and thus end deliberation, make a decision, be sure about something. Eventually this particular metaphor becomes dead, and the verb compound *thag-tSHAD* “cut the rope” comes to mean, simply, “decide.”

We also find rather dry and academic metaphors, in the Indic style, in the classical literature; Tsoñ-kha-pa, for example, in his *Dgoñs-pa rab-gsa!* commentary on Candrakīrti’s *Madhyamakāvatāra*, writes as follows:

*zab-tšiñ rgya-tšhei legs-bšad kun-gyi gter
ndžig-ten kun-gyi ma-ndris mdza-bšes-te
sa-gsum ngro-la lam-bzañ mtshon-pai mig
thub-dbañ smra-bai ūi-mas rtag-tu skyoñs*

Treasure of all the deep broad maxims,
Unasked friend of all the world,
Eye which shows the good path to beings of the three realms,
Sun of the master’s teachings—ever protect us!

The native Tibetan poetic tradition is particularly rich in metaphor. In the epic of Ge-sar we read of *mtho nam-mkha mthiñ-gi gur-khañ* “the azure tent

of heaven on high." The horses of Tibet are described as follows:

*khra-mo gliñ-gi mdo-tshen-mams
la-la smug-po phyur-phyur red
thad-la rgya-khra nphur-nphur red
thur-la rbab-rgod yar-yar red*

The great spotted horses of Gliñ
are a swirling fog upon the passes,
are soaring hawks upon the plain,
are a leaping avalanche as they descend.

Or again:

*res-nga skyid-kyi ñi-ma ntshar
res-nga ndžigs-snañ rluñ-nag ntshub
rañ-sems dgoñs-kai dar-tshug-la
ñams-snañ rluñ-gis bskyod-bskyod-nas*

Sometimes the sun of fortune rises;
sometimes the storm of fear whirls about.
The winds of thought disturb
the silken banners of the mind.

We also find frequent metaphors in the genre of lyric poetry called *mgur* "mystic song." Pad-ma dkar-po particularly would build his poems around a framework of extended metaphors; here, for example, he uses a series of syntactically parallel and interlocking metaphors to express his sorrow at having to leave the beautiful Lho-brag valley, where he has been meditating with his disciples, in order to fulfill his political and administrative responsibilities elsewhere:

*ndzam-gliñ tshu-mtsho-na ngyiñ-ba ku-mud-kyi sdoñ-po
de-la mdza-gišugs-su ldan-pa tshu-šel-gyi zla-ba
dus-tshod ñin-mtshan-gyi bgröd-pas zla-ba ñas tshas-nas
gliñ-gsum ñin-nkhor-la byas-nas lho-gliñ ndir sleb-oñ
od-dkar dga-ston-du ngyed-do ku-mud-kyi nags-tshal
sa-smos ser-ba-las sruñs-šig sñags-ntšañ-gi nag-po*

Haughty in the southern lakes
 are the stalks of water lilies,
 and their lover
 is the crystal moon:
 wandering through day and night
 I am the moon and must depart
 to circle the world in a day;
 will return here to the south
 and hold a feast of white moonbeams.
 O blackness of magicians!
 protect from the hailstorm
 my forest of water lilies!

*spañ-gšoñs mthon-po-na mdzes-pa spañ-rgyan-gyi sñon-mo
 de-la mdza-gtšugs-su ldan-pa stag-tšuñ-gi buñ-ba
 dus-tshod bser-bu-yis bskul-bas buñ-ba ñas tšhas-nas
 nags-mtha yud-tsam-gyis bskor-nas spañ-gšoñs ndir sleb-oñ
 glu-sgra dir-dir-gyis ngeñis-so spañ-rgyan-gyi tshal-tšhen
 me-tog ba-mo-las skyobs-šig lho-sprin-gyi smug-po*

Beautiful upon the high meadows
 is the blue of the flowers,
 and their lover
 is the young tiger-striped bee:
 impelled by the cool breeze
 I am the bee and must depart
 to circle the woods in an instant;
 will return here to the meadow
 and fill it with buzzing song.
 O mists of southern clouds!
 protect from the frost
 my forest of meadow flowers!

*lho-brag luñ-gsum-na skyid-pa gnas-tšhen-gyi mkhar-tšhu
 de-la mdza-gtšugs-su ldan-pa mal-nbyor-gyi pad-dkar
 dus-tshod bya-bžag-gis brel-bas pad-dkar ñas tšhas-nas
 lho-gtsañ skad-tšig-gis bskor-nas gnas-tšhen ndir sleb oñ
 dam-tšhos dga-ston-du ngyed-do ndir bžugs-pai mušhod-yon
 khyed-tšag bar-tšhad-las skyobs-šig bla-ma-yi dkon-mtšhog*

Delightful in the three valleys of Lho-brag
 is the holy River Mkhār,
 and its lover
 is the yogin Pad-ma dkar-po:
 busy with things that must be done
 I am Pad-ma dkar-po and must depart
 to circle Lho-kha and Gtsang in a moment;
 will return here to this holy place
 and hold a feast of the holy Law.
 O jewel of lamas!
 protect from hindrance
 my friends and disciples!

The following song similarly consists in a series of extended metaphors: Pad-ma dkar-po sings of his desire to cast aside his administrative responsibilities, to cease his wandering among the kingdoms of the world, and to live in meditation by the River Mkhār:

*nags-lđzoñs phal-mo-la ngrim-pa rgya-stag-gi khra-bo
 tsan-dan nags-ma-dañ phrad-pas sems-yid-la šor-nas
 nags-mtha sñeg-pa-la mi-dga stag-phrug-gi gžon-nu
 ndzum-drug bstan-sa-la bya yin tsan-dan-gyi nags-ma*

The striped tiger
 wanders in ordinary woods
 until he is captivated
 by finding the sandalwood forest.
 Then the young tiger
 has no joy dashing about the woods;
 the forest of sandalwood is the place
 for him to show his grin.

*gañs-ri zur-kha-la ngrim-pa señ-ge-yi dkar-mo
 gañs-stod mthon-po-dañ phrad-pas sems-yid-la šor-nas
 zur-kha-la sñeg-pa-la mi-dga señ-phrug-gi gžon-nu
 g.yu-ral gsig-sa-la bya yin gañs-stod-kyi mthon-po*

The white lion
 wanders beneath the glaciers
 until he is captivated

by finding the high snows.

Then the young lion
has no joy dashing beneath the glaciers:
the snowy heights are the place
for him to shake his turquoise mane.

*mtsho-mtha sgor-mo-la ngrim-pa ngyur-ltsan-gyi ña-mo
tshu-kluñ dwañs-mo-dañ phrad-pas sems-yid-la šor-nas
mtsho-mtha sñeg-pa-la mi-dga ltañ-dkar-gyi ña-phrug
gser-mig blta-sa-la bya yin g.yu-mtsho-yi sñon-mo*

The wiggling fish
wanders around the lake
until he is captivated
by finding the clear stream.
Then the young fish
has no joy dashing around the lake:
the blue of the turquoise waters is the place
for him to roll his golden eyes.

*dguñ-sñon mthon-po-la ngrim-pa bya-rgyal-gyi rgod-po
brag-dmar ri-bo-dañ phrad-pas sems-yid-la šor-nas
nam-nphañ spyod-pa-la mi-dga ltañ-dkar-gyi gžon-nu
gzog-phrug brkyañ-sa-la bya yin brag-dmar-gyi mthon-po*

The kingly condor
wanders the high blue heavens
until he is captivated
by finding the red rock mountains.
Then the young condor
has no joy soaring the sky:
the heights of the red rocks are the place
for him to spread his pinions.

*rgyal-khams phyogs-med-la ngrim-pa mal-nbyor-gyi dpon-slob
gnas-tshen mkhar-tshu-dañ phrad-pas sems-yid-ia šor-nas
rgyal-khams ngrim-pa-la mi-dga bstan-ndzin-gyi gžon-nu
sgom-sgrub ndag-sbyar-la bya yin de-bi-yi ko-ñi*

The yogin and his disciples
 wander through all kingdoms
 until they are captivated
 by finding the holy River Mkar.
 Then the young scholar
 has no joy wandering the kingdoms:
 Devakoṭi is the place
 for him to be sealed in a cave to meditate.

4.2. SIMILES

Similes, on the other hand, are created by a syntactic device; and similes—especially extended ones—can easily cross sentence boundaries. Two terms are used in Tibetan to create similes—*bzin* “like, as” and *-lta ~ -lta-bu ~ -lta-ba* “like, as.” When used to formulate a simile, *bzin* and *-lta ~ -lta-bu ~ -lta-ba* normally appear in adverb form, although the adverb particle *-tu* may be omitted under the constraints of meter; note, for example, in the *Legs-par bṣad-pa rin-po-tshai gter* by Sa-skyā paṇḍita, *bsags-pai nor ni sbrañ-rtsi-ltar, nam-žig gžan-gvis spyod-par ngur* “Hoarded wealth, like honey, will eventually be enjoyed by others,” *bzo-yi rig-byed sbyañs-pa-ltar, dam-tshos dka-ba med-par ngrub* “Like mastering the instructions of a craft, the holy dharma is accomplished without difficulty,” *skye-bo dam-pa rin-tshen-bzin, rnam-pa kuntu ngur-ldog med* “A holy person, like a jewel, is always unchanging,” *tshuñ-ma bsad-pai thi-ba-ltar, grogs-dañ bral-bai mya-ñan thob* “Like the pigeon who killed his wife, he gains the suffering of being without friends,” *śiñ-bal tshuñ-nus gyo-ba-ltar, dman-pai spyod-pa ngur-ldog tshé* “Like the fluttering of cotton because of any small thing, the conduct of the ignoble is changeable,”

*pha-rol gnad-tu nbebs-pai tshig
 dgra-bo-la yañ smra mi-bya
 brag-tsha bzin-du rañ-ñid-la
 de ma-thag-tu le-lan nbyuñ*

Even to an enemy you should not speak
 a word that touches the quick of another;
 like an echo, the consequence comes
 immediately upon oneself.

In each case, the simile-creating *-bzin* or *-lta* is preceded by a nominal

phrase, simple or complex, with or without specifiers or modifiers—thus *sbrañ-rtsi-ltar* “like honey,” *rin-tshen-bžin-du* “like a jewel,” *brag-tsha-bžin-du* “like an echo,” *tshuñ-ma bsad-pai thi-ba-ltar* “like the pigeon who killed his wife”; and sometimes with a nominalized proposition as its head—thus *bzo-yi rig-byed sbyañs-pa-ltar* “like mastering the instructions of a craft,” *śin-bai tshuñ-ñus gyo-ba-ltar* “like the fluttering of cotton because of any small thing.” Where the content of such a phrase is deemed recoverable from the

Imagination is not, as its etymology would suggest, the faculty of forming images of reality; it is rather the faculty of forming images which go beyond reality, which sing reality. It is a superhuman faculty.

—Gaston Bachelard,
L'eau et les rêves

preceding text, it may, of course, be omitted; however, since the simile-creating *-bžin* and *-lta* are BOUND, as indicated by the hyphen with which I write them, the phrase is represented by the phrase-closing determiner *de* “THAT”—thus *sbrañ-rtsi-ltar* “like honey” *de-ltar* “like that” but not *?-ltar*, *rin-tshen-bžin-du* “like a jewel” *de-bžin-du* “like that” but not *?-bžin-du*. Thus we find, again in the *Legs-par bšad-pa rin-po-tshei gter* by Sa-skyā pāṇḍita,

*sdoñ-po giśig-las skyes-pu-yi
rtsa-mamis duñ-gis phyogs btšur nñhor
DE-BŽIN lhan-tśig skyes-pa-yi
skye-bo las-kyis so-sor nñral*

The wind scatters in the ten directions
grasses born from a single stalk.
LIKE THAT, karma separates
persons who were born together.¹⁴

¹⁴ The form *de-ltar* “like that” can, of course, refer back to any prior element of discourse, not necessarily a simile, but including courses of action. Thus Sa-skyā pāṇḍita writes:

*mikhas-pa yon-tan dpag-med-kyāñ
gñan-gyi yon-tan tshuñ-ñuañ ten*

Similes can be similarly formed from nominals by means of the totalizer *tsam* "as much as." Note, for example, in the Tibetan translation of the Chinese *ndzañs-blun žes bya-bai mdo, dum-bur bišad-pa tsam-du sdug-bsñal-gyis gduñs* "He suffered as much torment as being cut to pieces," *bus ma mthoñ-ba tsam-du dga* "He was as happy as a child seeing its mother."¹⁵

*DE-LTAR rgyun-du spyad-pa-yis
myur-du thams-tšad mkhyen-par ngyur*

Though a wise man have numberless accomplishments
he accepts even a small piece of learning from others.
By always acting LIKE THAT
he quickly becomes omniscient.

This is as good a place as any to point out that, in some texts, where the patient of a verb of information is recoverable from context or general knowledge, the omitted patient participant is represented, not, as we would expect, with *θ* or *de-θ*, but with *de-ltar*—thus, again from Sa-skyā pāñjīta,

*tšhos-dañ tšhos-min smra-ba-la
mikhas-pa ſin-tu mañ-na yañ
DE-LTAR ſes-nas ñams-len-pa
ndžig-rten ndi-na ſin-tu dkon*

There are many who are skilled
in speaking of right and wrong;
but one who knows IT and takes it to heart
is very rare in this world.

*ñams-tšhuñ-nams-kyis rañ-ñid-kyi
smra-ba thams-tšad skhrul-bar bṣam
DE-LTAR go-nas mi-smra-bai
mi-la gžan-gyis bkur-ba ñe*

Humble people will think
that all their own words are mistaken;
honor by others is near to the man
who understands THIS, and does not speak.

¹⁵ Note also the verb *ndra* "resemble, be like, be equal," which occurs with an accompaniment as its core participant—thus, for example, in a relative construction from the biography of Mi-la ras-pa, *bod mun-nag-gi gliñ-na skyes-bu [gañs-la ñi-ma ſar-ba ndra-ba] yañ yod-par sdug* "Yet there are in this dark land of Tibet people like the sun rising on the glaciers."

5. METRICS

5.1. DEFINITIONS

The Tibetan VERSE or metrical line consists of two or more FEET, most commonly between three and five; each foot consists of two POSITIONS—a STRONG position and a WEAK position; thus, for example, a three-foot verse has the underlying metrical pattern

[(strong)(weak)] [(strong)(weak)] [(strong)(weak)].

Every word in classical Tibetan has a single primary STRESS that falls on the first syllable; bound forms (conjunctions, nominalizers, role particles, bound quantifiers) are thus considered unstressed, as are also *ni* and *Yañ*, unless the latter is the first word of the proposition; free quantifiers, numerals, and determiners may also be unstressed in a weak position. We will symbolize a stressed syllable as *I* and an unstressed syllable as *O*.

It is not necessary that a poem should rely on its music, but if it does rely on its music that music must be such as will delight the expert.

—Ezra Pound,
A Retrospect

Stress, however, is NEUTRALIZED in the last syllable of every verse: that is, both stressed and unstressed syllables in verse final position count as bearing the same stress; there is no systematic distinction of stress in this position. Metrical symmetry suggests that syllables with neutralized stress be counted as unstressed; thus the last *O* of any sequence symbolizes either *O* or *I*.

We must distinguish between periodical and aperiodical meters. In a PERIODICAL METER each verse exhibits the same mapping of stress onto the metrical pattern; in an APERIODICAL METER the mapping exhibited by each verse may be different.

5.2. BASIC MAPPING

In a periodical meter, the simplest mapping of stress onto the metrical pattern is for each strong position to be filled with one stressed syllable and each weak position to be filled with one unstressed syllable, as follows:

[(strong)(weak)]	[(strong)(weak)]	[(strong)(weak)]			
1	0	1	0	1	0

This basic MAPPING RULE is precisely the one found in a large number of Tibetan folksongs, with metrical lines three feet long, as in these examples:

101010	<i>lha-sa skyid-pai sgo-la</i>
101010	<i>skyid-tshus g.yas-skor rgyab byuñ</i>
101010	<i>sruñ-ma ma-tšig dpal-lhai</i>
101010	<i>yon-tšhab mišod-pa yod-do</i>
101010	<i>ha-tšañ smin-pai nbras-bu</i>
101010	<i>gžan-las kha-mñar ldan-pas</i>
101010	<i>ndab-nbras pad-mai stañ-nas</i>
101010	<i>g.yu-sbrañ sems-pa skyo byuñ</i>

This meter is also found in the *mgul-glu* "love songs" of the sixth Dalai Lama Tshañ-dbyāñs rgya-mtsho, poems clearly based on folk prototypes, as in the following stanza:

101010	<i>ña-dañ tshoñ-ndus bu-moi</i>
101010	<i>tshig-gsum dam-bitšai mdud-pa</i>
101010	<i>khrag-poi ngrul-la ma-rgyab</i>
101010	<i>rañ-rañ sa-la grol soñ</i>

Longer versions of this meter, with four feet, can be found occasionally in translations from Sanskrit, as in the well-known hymn *Bišom-ldan ndas-ma yañ-dag-par rdzogs-pa sañs-rgyas bstod-pa gsuñs-pa* to the twenty-one forms of the goddess Tārā:

10101010	<i>phyag-ntshal bskal-pai tha-mai me-ltar</i>
10101010	<i>nbar-bai phreñ-bai dbus-na gras-ma</i>
10101010	<i>g.yas-brkyañ g.yon-bskum kun-nas bskor-dgai</i>
10101010	<i>dgra-yi dpuñ ni mam-par ndžoms-ma</i>

This longer meter too is not unknown in native Tibetan poetry, as in this *mgur* or mystic song from the *Rdo-rdzei mgur skal-l丹 yid-kyi mun-sel* of Stag-tshañ ras-pa Ñag-dbañ rgya-mtsho:

10101010	<i>sñiñ-nas byañ-išhub bsgrub-ndod yoñ-kyañ</i>
10101010	<i>glo-bur ma-rig nkhruł-pa gtšig-gis</i>
10101010	<i>bslañ-nas rañ-ño šes-te ma-tshugs</i>
10101010	<i>ña ni mtshan-l丹 rdže-dañ mdžal byuñ</i>

5.3. SYNALEPHA

It is also possible to map two unstressed syllables onto a single weak position: this mapping is traditionally called SYNALEPHA. By far the single most common meter in classical Tibetan—used as the standard translation of the Sanskrit *śloka* as well as in much native poetry—has a metrical line of three feet with a single synalepha in the last foot, as follows:

[(strong)(weak)]	[(strong)(weak)]	[(strong)(weak)]			
1	0	1	0	1	0 0

We may cite as examples the following stanzas from the *Legs-par bšad-pa rin-po-išhei gter* by Sa-skya pañdita:

1010100	<i>rañ-la blo-gros mi-l丹-na</i>
1010100	<i>blo-išhen gžan-la legs-par dri</i>
1010100	<i>lag-pas dgra-bo mi-gsod-na</i>
1010100	<i>mtshon-išha len-par mi-byed-dam</i>
1010100	<i>mkhas-pa bya-ba ma-yin-pai</i>
1010100	<i>bya-ba šes-kyañ mi-bya-o</i>
1010100	<i>glañ-pos dgra-sde btšom-pa-yis</i>
1010100	<i>rgyun-du rgyal-pos btšiñs-la ltos</i>

Other and longer versions of this periodical meter may have nine or even more feet; four feet is the second most common length, as in this poem by Pad-ma dkar-po, from his ritual text *Sñan-rgyud yid-bzin nor-bui bskyed-pai rim-pa rgyas-pa ndod-pai re-skoñ*:

- 101010100 *dzam-bui gser-las rañ-byuñ lte-ba zlum*
 101010100 *rsibs-stoñ mu-khyud mtshog-tu rnam-nphrul-ba*
 101010100 *mkha-la rab-nphags phyogs-las rgyal-byed-pai*
 101010100 *nkhor-lo rin-tshen nam-mkha bkañ-ste nbul*

or in the introductory stanzas to Tsoñ-kha-pa's *Bstan-btšos tshen-po dbu-mala ndžug-pai mam-bšad dgoñs-pa rab-gsal* commentary on the *Madhyamakāvataṭa* of Candrakīrti:

- 101010100 *zab-tšin rgya-tshei legs-bšad kun-gyi gter*
 101010100 *ndžig-ten kun-gyi ma-ndris mdza-bšes-te*
 101010100 *sa-gsum ngro-la lam-bzañ mtshon-pai mig*
 101010100 *thub-dbañ smra-bai ñi-mas rtag-tu skyoñs*

Even longer metrical lines can be found in translations of the complex meters of Sanskrit *kāvya* as well as in the ornate native Tibetan poetry it inspired, especially in the genre of *bstod-pa* or encomium. We find the following eight-foot lines, for example, in an encomium of Genghis Khan—of all people—included in Ndžigs-med rigs-pai rdo-rdže's history of Buddhism in Mongolia entitled *Tshen-po hor-gyi yul-du dam-pai tshos dži-ltar byuñ-bai tshul bšad-pa rgyal-bai bstan-pa rin-po-tshe gsal-bar byed-pai sgron-me*:

- 10101010101010100 *phyi-yi spyod-pa rtsub-mor
 bstan-rgyud ñams-thag ngro-la
 brtse-bas dam-du nkhyud*
- 10101010101010100 *khyim-pai tsha-lugs bzun-naañ
 rgyal-bstan spel-bai lhag-bsam
 o-mai rgya-mtsho rdol*
- 10101010101010100 *sa-yi tshañs-pa yab-sras
 brgyud-par btšas-pai ño-mtshar
 mazad-bzañ sku-drin gzugs*
- 10101010101010100 *dañ-pai yid-mtshor šar-tshe
 lag-pai ndab-brgya sñiñ-gar
 mi-zum dpyod-ldan su*

Bio-bzañ tshos-kyi ñi-ma uses nine-foot lines in a stanza of praise to Atīśa that forms part of the introduction to his *Grub-mtha thams-tšad-kyi khuñs-dañ ndod-tshul ston-pa legs-bšad ſel-gyi me-loñ*:

101010101010101010100	<i>dka ба du-mas gser-gyi gliñ-nas gñer-blañs byañ-tshub sems-kyi gdams-pa dbañ-gi rgyal</i>
101010101010101010100	<i>bod-yul gdul-byar brtse-bas nphañs-med stsol-mdzad džo-bo tshen-po dī-pam ka-ra-dañ</i>
101010101010101010100	<i>yoñs-rdzogs thub-bstan bdag-gir bžes-te legs-bšad giam-dañ mam-thar gtsañ-mai ño-mtshar-gyis</i>
101010101010101010100	<i>kun-las khyad-nphags dge-lđan srol-nbyed rgyal-ba gñis-pa sras-dañ bišas-la sññi-nas ndud</i>

We should mention here too the monstrous eighteen-foot *tour de force* with which the crazy yogin Gtsañ-smyon he-ru-ka begins his famous biography of Mi-la ras-pa, the first line of which reads 101010101010101010101010101010101010100 *tshos-skui lha-lam ma-rig tshu-nzin gdod-bral dbiyñs-na gzugs-sku lag-pai ñin-mtshar mgon ni bdud-tshui sgra-gtšan rtsa-bral nphrin-las mkhyen-brtsei od-ngyed mtha-klas dpal-nbar-bas.*

Synalepha is found also in feet other than the last. For example, in the following verses from the prayer *Mtshams sgrub-hyed-skabs thun mgo-mdžug-tu ndon-rgyu gsol-ndebs bla-ma rgyañ-nbod* by Ndžig-rtén blos-btañ, we find synalepha in the second foot:

1010010	<i>tshos-sku ngyur-med-kyi ño-bo</i>
1010010	<i>tshos-sku kun-khyab-kyi ño-bo</i>
1010010	<i>tshos-sku bde-tshen-gyi ño-bo</i>
1010010	<i>gñis-med ye-šes-kyi ño-bo</i>
1010010	<i>lhan-skyes ye-šes-kyi ño-bo</i>

The heroic poetry found in the archaic Central Asian manuscripts, dating back as far as the mid-seventh century, uses a verse of two feet with synalepha in both:

100100	<i>dgu-sño ni bdun-rim-gyi</i>
100100	<i>lha-yul ni guñ-dañ-nas</i>
100100	<i>lha-sras ni myi-i mgon</i>
100100	<i>myi-yul ni thams-tšad-dañ</i>
100100	<i>myi-mtshuñs ni myi-ndra-ste</i>

The last syllable of the first foot is always an unstressed *ni*, and, as in the later poetry, stress appears neutralized in the final syllable of each verse. This ancient bardic structure is occasionally encountered in later works, in such lines as these from the Bon text *Bka ndus-pa rin-po-tshe gzer-myig-gi rgyud*:

100100	<i>mkhyen-mgar ni yag-po lags</i>
100100	<i>sphrul-mgar ni kun-mkhyen lags</i>
100100	<i>bzañ-mkhan ni yo-mñes lags</i>
100100	<i>nañ-gi ni dro-ma myoñ</i> .

Variations on this pattern are also sometimes found in the ancient manuscripts, as in the following two stanzas from a mythological fragment found in the caves near Tun-huang:

10010	<i>rita-la ni gañ mgyogs</i>
10010	<i>rmañ-la ni rtsal tše</i>
10010	<i>sñag-na ni myi-slebs</i>
10010	<i>nbros-na ni myi-thar</i>
10010	<i>rgal-na ni myi-thub</i>

The poet Pad-ma dkar-po, as a further example, made extensive and remarkably skillful use of periodic meters with synalepha in alternative feet. We may give the following two examples from a manuscript of his collected songs, entitled *Rdo-rdže glui phreñ-ba sña-ma*:

1001010010	<i>rgyal-khams-kyi mtshod-gnas mal-nbyor-gyi dpon-slob</i>
1001010010	<i>sgrub-brgyud-kyi bstan-ndzin ngran-med-du ndug-pas</i>
1001010010	<i>thos-bsam-dañ sgom-pa tšig-tsar-du bgyis-pa</i>
1001010010	<i>bar-tshad-la med-do byin-rlabs-kyi khyad-par</i>
101001010010	<i>nags-lđzoñs phal-mo-la ngrim-pa rgya-stag-gi khra-bo</i>
101001010010	<i>tsan-dan nags-ma-dañ phrad-pas sems-yid-la šor-nas</i>
101001010010	<i>nags-mtha sñegs-pa-la mi-dga stag-phrug-gi gžon-nu</i>
101001010010	<i>ndzum-drug btsan-sa-la bya-yin tsan-dan-gyi nags-ma</i>

5.4. CATALEXIS

In the first foot of a verse it is possible for a weak position to be left empty;

this mapping we will call CATALEXIS. A particularly popular meter for *mgur* "mystic song," both periodically and aperiodically, was a four-foot meter with catalexis in the first foot and synalepha in the last, as follows:

[(strong)(weak)]	[(strong)(weak)]	[(strong)(weak)]				
1	—	1	0	1	0	0

Used as a periodical meter, for example, we find the following couplets forming part of the central section of a song by Mi-la ras-pa, as given in the anthology *Mišhog-gi dños-grub mñon-du byed-pai myur-lam bka-brgyud bla-mams-kyi rdo-rdže mgur-dbyañs ye-šes tšar-nbebs rañ-grol lhun-grub bde-tshen rab-nbar ñes-don rgya-mtshoi sñiñ-po*, which we will call by its short title *Bka-brgyud mgur-mtsho*:

1-1010100	<i>ñai gnas-la bltas-na ri-dwags ndra</i>
1-1010100	<i>mi gšan-gyis mthoñ-yañ sñiñ-rluñ ldañ</i>
1-1010100	<i>ñai zas-la bltas-na dud-ngro ndra</i>
1-1010100	<i>mi gžan-gyis mthoñ-na skyug-bro ldañ</i>
1-1010100	<i>ñai lus-la bltas-na keñ-rus ndra</i>
1-1010100	<i>dgra sdañ-bas bltas-kyañ mtši-ma ntšhor</i>

The same meter is often exploited by Pad-ma dkar-po, as in the following stanza from the *Rdo-rdže gluī phreñ-ba sña-ma*:

1-1010100	<i>yun riñ-po tsam-rañ ma-sbyañs-kyañ</i>
1-1010100	<i>tshos luñ-rigs tshad-mas gžal-ba-la</i>
1-1010100	<i>dus deñ-sañ smra-bai señ-ger gyur</i>
1-1010100	<i>khoñ mkhas-pa tshogs-kyin ña-re brod</i>

An example from a Dge-lugs-pa poet is the well-known *Gsuñ-mgur Šar-gañs ri-ma* by the first Dalai Lama Dge-ndun-grub, of which the following are the first two stanzas:

1-1010100	<i>Šar gañs-ri dkar-poi rtse-mo-na</i>
1-1010100	<i>spring dkar-po gnam-la bsñeg-ndra-ba</i>
1-1010100	<i>de mthoñ-ba mod-la bla-ma dran</i>
1-1010100	<i>dran bsams-šiñ bsams-šiñ dad-ma skyes</i>
1-1010100	<i>spring dkar-po ldiñ-bai Šar-phyogs-na</i>
1-1010100	<i>nbrog dge-lđan mam-par rgyal-ba der</i>

- 1-1010100 *mishan brdžod-par dka-bai rin-po-tšhe*
 1-1010100 *pha blo-bzañ grags-pa yab-sras bžugs*

As a final example we may cite the following verses attributed to the third Dalai Lama Bsod-nams rgya-mtsho in the *Tshen-po hor-gyi yul-du dam-pai tshos dži-ltar byuñ-bai tshul bšad-pa ryal-bai bstan-pa rin-po-tšhe gsal-bar byed-pai sgron-me* by Ndžigs-med rigs-pai rdo-rdže:

- 1-1010100 *ñed sog-poi ryal-pos spyan-drañs-nas*
 1-1010100 *yul mtha-nkhab gnas-su ngro-śar-kyañ*
 1-1010100 *dus mi-nyañs bžin-du nkhor bgyid-pas*
 1-1010100 *de bar-du sems-la bžag-bya ni*
 1-1010100 *gnas dpal-ldan nbras-spüñs tshos-kyi sde*
 1-1010100 *gžis dga-ldan pho-brañ nkhor-bišas-kyi*
 1-1010100 *don ndzin-nbras le-par ma-śor-žiñ*
 1-1010100 *rañ rgyu-nbras tshos-la yid-tšes-dan*
 1-1010100 *las dge-bai phyogs-la nbad-kyañ ntshal*

5.5. APERIODICAL METERS

APERIODICAL METERS can often be of great poetic interest. The simplest type consists in simple metrical alternation, as in the following folksong stanzas:

- 1010100 *da ni dog-moi bro-brduñ žus*
 1-1010100 *steñ lha-yi yul-du bro-tšig brduñ*

 1010100 *dog-moi sa-la mam-pa-tsam*
 1-1010100 *bar bstan-gyi yul-du bro-tšig brduñ*

 1010100 *dog-moi sa-la mam-pa-tsam*
 1-1010100 *og klu-yi yul-du bro-tšig brduñ*

The poet Mi-la ras-pa is fond of such devices, and we find such stanzas as the following, given in the *Bka-brgyud mgur-mtsho*:

- 1010100 *?a-ne khyuñ-bzai dpal-ndren de*
 1-1010100 *dus da-lta skyid-dam mi-skyid blta*

 1010100 *khañ-pa ka-bži gduñ-brgyad de*
 1-1010100 *dus da-lta ngyel-lam ma-nygel blia*

- 1010100 *gtsañ-khañ zur-bži logs-brgyad de*
 1-1010100 *dus da-lta žig-gam ma-žig bla*

The crazy yogin Nbrug-pa kun-legs uses a similar alternation in the following stanza, included in his autobiography *Rnal-nbyor-pai miñ-tšan kun-dga legs-pai mam-thar byuñ-tshul lhug-par smras-pa žib-moi risid-mo ha-le ho-le sna-zin spu-zin-nas bkod-pa*:

- 1-1010100 *ña skye-ba mañ-poi phreñ-ba-la*
 1-1010100 *lus ma-blañs bya-bai dgu-tšig blañs*
 1010100 *gsal-gsal rañ-tšig mi-ndug-ste*
 1-1010100 *tshod byas-na ndi-ltar skyes-sam sñam*

and the yogin Lo-ras-pa uses an even more irregular pattern in such stanzas as the following, again given in the *Bka-brgyud mgur-mtsho*:

- 1-1010100 *blo las-su ruñ-bai sems-rgyud ndi*
 1-1010100 *gañs dkar-po stoñs-kyi na-bun ndra*
 101010100 *na-bun nam-yal mi-šes sgom-la gšegs*
 1-101010100 *ndi yal-bar ñes-so dam-pai tshos-la gšegs*

We can note here that such catalectic first feet can be used as a device of topicalization. In a poem by Mi-la ras-pa given in the *Bka-brgyud mgur-mtsho*, the poet begins an admonitory address to his own wandering mind with a single aperiodical verse before continuing with periodical lines of the form 1010100:

- 1-1010100 *sems ma-spro ma-spro rañ-sar žog*
 1010100 *spros-na don-med sna-tshogs dran*
 1010100 *ma-yeñs ma-yeñs dran-pa brten*
 1010100 *yeñs-na dge-sbyor rluñ-la ntšhor*
 : :
 : :

The topical syllable *sems* "mind" is here set off by its position in an initial catalectic foot. Similarly, in another poem, found in the *Rag-mai skor sña-ma* of the *Rdže-btsun mi-la ras-pai mam-thar rgyas-par phye-ba mgur-nbum*, Mi-la ras-pa begins with the line 1-1010100 *ña rigs-drug nkhul-pai groñ-khyer-du*, establishing the syllable *ña* "I" as topic before continuing with several stanzas of periodical 1010100 verses; he then gives a series of metaphors about himself, again topicalizing *ña* in a catalectic foot at the beginning of each stanza:

1-1010100	<i>ñā mal-nbyor mi-yi señ-ge yin</i>
1010100	<i>lta-ba bzañ-poi g.yu-ral rgyas</i>
1010100	<i>bsgom-pa bzañ-poi mišhe-sder-tšan</i>
1010100	<i>ñams-len gañs-kyi ltoñs-su byas</i>
1010100	<i>yon-tan nbras-bu thob-tu re</i>
1-1010100	<i>ñā mal-nbyor mi-yi rgya-stag yin</i>
1010100	<i>byañ-tshub sems-kyi rtsal-gsum rdzogs</i>
1010100	<i>thabs-šes dbyer-med gra-ndzum-tšan</i>
1010100	<i>ndogs-la sman-lđoñs nags-la bsdad</i>
1010100	<i>gžan-don nbras-bu nbyiñ-du re</i>
1-1010100	<i>ñā mal-nbyor mi-yi rgod-po yin</i>
⋮	⋮

Similar to such patterns of aperiodical catalexis are patterns of aperiodical synalepha. We find folksongs with loosely organized systems of aperiodical synalepha in the final foot:

101010	<i>ka-bži gduñ-brgyad nañ-du</i>
1010100	<i>rigs-bzañ mkha-ngrō gžas-la byon</i>
1010100	<i>de-riñ skyid-poi ñin-mo-la</i>
1010100	<i>dpa-bo mkha-ngrō gžas-la byon</i>
1010100	<i>phyag-gi dañ-po yul-lha-la</i>
1010100	<i>gži-bdag ya-la phyag-ntshal-lo</i>
101010	<i>snam-bu dkar-po tshags-la</i>
101010	<i>mi-ngrō zer-rgyu yin-na</i>
101010	<i>añ-la bu-mo ña ni</i>
10101010	<i>dam-pai tshos-la ngrō-rgyu yin-no</i>

More regular patterns of alternation may be associated—as was the case with alternating catalexis—with systematic variation of the number of feet in each line. For example, we find the following song recorded in the chronicle *Ladwags rgyal-rabs*, a history of Buddhism in Ladakh:

101010	<i>sol-bas rdo-gsum žus-nas</i>
10100	<i>dñul-zañs ltšags-gsum ston</i>

101010	<i>śīñ-la bug-pa bud-nas</i>
10100	<i>śol-dañ gñā-śīñ bīśos</i>
101010	<i>mthun-gñis gñā-ru sdebs-nas</i>
10100	<i>thañ-mams žiñ-du rmos</i>
101010	<i>rgya-mtsho yur-la drañs-nas</i>
10100	<i>tshu-la zam-pa ndzugs</i>

Mi-la ras-pa often utilizes such strictly organized patterns of alternation, particularly in the second foot, as we find in the following stanzas of prayer to his master Mar-pa, given in the *Bka-brgyud mgur-mtsho*:

10910100	<i>skyel-ma-dañ bsu-mai thugs-dam mdzod</i>
100100100	<i>bar-tshad-dañ rkyen-ñan-gyi bzlog-pa mdzod</i>
10010100	<i>lus-ñag-dañ bsam-pai sruñ-ma mdzod</i>
100100100	<i>smon-ma-dañ thugs-khur-gyi rten-nbrel mdzod</i>
10010100	<i>thugs-rdže-dañ nus-pai dbañ-bskur mdzod</i>
100100100	<i>rgyud-luñ-dañ man-ñag-gi rgyab-brten mdzod</i>

Elsewhere in the poems of Mi-la ras-pa we can find more loosely patterned forms, as in these stanzas from the *Bka-brgyud mgur-mtsho*, where he uses alternating synalepha in the second and then in the first foot:

1010100	<i>skye-boi so-nam sdig-pai las</i>
10100100	<i>spyad-na ñan-soñ-gi sdug-bsñal myoñ</i>
1010100	<i>ñe-dui gduñ-sems bdud-kyi mkhar</i>
10100100	<i>brtsegs-na me-obs-kyi nañ-du tshud</i>
10010100	<i>zas-nor-gyi gsog-ndžog mi-yi rgyu</i>
1010100	<i>bsags-tshad sprañ-poi brgyags-phye yin</i>

Even more complex patterns can be achieved by combining aperiodical catalexis and synalepha, as in the following song attributed to Padmasambhava in his biography *Gu-ru pad-ma nbyuñ-gnas-kyi skyes-rabs rnām-par thar-pa*:

1-1010100	<i>ña bon-po pad-ma nbyuñ-gnas yin</i>
1-10100100	<i>tshos ltañ-ñan g.yañ-blon-gyi gdams-ñag bdog</i>
1-1010100	<i>lar rigs drug sems-tšan bde-la bkod</i>
1010100	<i>lha-srin sde-brgyad bran-dü skhol</i>

The yogin Rgod-tshañ-pa Mgon-po rdo-rdže uses a similarly loose alternation in the chorus of a mystic song of prayer to the lineage of his masters, given in the *Bka-brgyud mgur-mtsho*:

1010101010	<i>snañ-ba ndi-kun zab-ta zob-tar ndug-go</i>
101-1010010	<i>kun-rdzob ndi sgyu-mai nkhrul-nkhor-du ndug-go</i>
101-1010010	<i>rgyab-brag ndi zañ-ñe thal-le-ru ndug-go</i>

As a final example we can cite a song attributed by the *Bka-brgyud mgur-mtsho* to three anonymous disciples of Sgam-po-pa, where aperiodical stanzas alternate with a repeated aperiodical chorus as follows:

1-1010100	<i>gnas og-min tshos-kyi pho-brañ-na</i>
1-10101010	<i>gnas de-na bžugs-pa rdo-rdže nišhañ-tšhen</i>
10100101010	<i>skabs-der gsol-ba-žig thob-dañ rdo-rdže spun-tsho</i>
101010100	<i>bla-mas yar-šog gsuñ-gin yar-yar ngro</i>
101010100	<i>mtho-ris them-skas ndžogs-šiñ yar-yar ngro</i>
101010100	<i>ñan-soñ rdog-pas gnon-žiñ yar-yar ngro</i>
10100100100	<i>šo-mo ñams-bzañ-la dga-yo-dañ re-spro-na</i>
1-1010100	<i>šar za-hor nor-bui dgon-pa-la</i>
1-101010010	<i>gnas de-na bžugs-pa tai-lo-yi šer-bzañ</i>
10100101010	<i>skabs-der gsol-ba-žig thob-dañ rdo-rdže spun-tsho</i>
101C10100	<i>bla-mas yar-šog gsuñ-gin yar-yar ngro</i>
101010100	<i>mtho-ris them-skas ndžogs-šiñ yar-yar ngro</i>
101010100	<i>ñan-soñ rdog-pas gnon-žiñ yar-yar ngro</i>
10100100100	<i>šo-mo ñams-bzañ-la dga-yo-dañ re-spro-na</i>
⋮	⋮

5.6. UNSTRESSED SYLLABLES IN STRONG POSITIONS

In many periodical meters we can note certain consistent variations from the mapping rules outlined above. These variations seem to constitute a set of optional metrical liberties a poet can take within the framework of the verse structure. One such permitted variation, not infrequently found, is for a strong position to be filled with one unstressed syllable rather than with one stressed syllable, as in the following folksong stanza:

- 101000 *bskal-bzañ bde-ba-tšan-gyi*
 101010 *nor-gliñ klu-yi pho-brañ*
 101010 *?e-ma de-ndra mhoñ-dus*
 101010 *ldžon-pai pho-brañ dran nbyuñ*

The same substitution can be found in the hymn of praise to the goddess Tārā called *Btšom-ldan ndas-ma sgrol-ma yañ-dag-par rdzogs-pa sañs-rgyas bstod-pa gsuñs-pa*:

- 10101010 *phyag-nthal sgrol-ma myur-ma dpa-mo*
 10101010 *spyan ni skad-tšig glog-dañ ndra-ma*
 10101010 *ndžig-ten gsum-migon tšhu-skyes žal-gyi*
 10100010 *ge-sar phye-ba-las ni byuñ-ma*
- 10101010 *phyag-nthal ston-kai zla-ba kun-tu*
 10101010 *gañ-ba brgya ni hrtsegs-pai žal-ma*
 10101000 *skar-ma stoñ-phrag tshogs-pa-mams-kyis*
 10101010 *rab-tu phye-bai od-rab nbar-ma*

and—in verses with synalepha in the last foot—in such stanzas as the following from Sa-skya pañđita's *Legs-par bšad-pa rin-po-tšhei gter*:

- 1010100 *šin-tu rgas-par gyur-tshe yañ*
 1010100 *thos-pa mañ-du bsags-par bya*
 1010100 *phyi-mar thos-pas phan-pa-tsam*
 1000100 *sbyin-pa-yis kyañ ga-la phan*
- 1010000 *dus-su ma-bab-pa-yi gtam*
 1010100 *gañ-smra de-la kun-gyis brñas*
 1010100 *mañ-po smra-bai gtam-tshig-las*
 1010100 *smyon-par rdžes-su mi-dpog-gam*

Similar substitutions are found in aperiodical meters: in the following stanzas in his autobiography *Rnal-nbyor-pai miñ-tšan kun-dga legs-pai mam-thar* the crazy yogin Nbrug-pa kun-legs maintains the parallel structure of his verses by introducing the exclamatory extra syllable *dañ* where the preceding strong position has been filled with an unstressed syllable:

100010	<i>mtshan-ldan-pai dañ bla-ma</i>
100010	<i>snod-ldan-pai dañ slob-ma</i>
101010010100	<i>dam-tshos tshul-bzin byed-pa-la dgos-pa</i> <i>yod-do ?ao</i>
100010	<i>dam-tshos-pai dañ ndul-ba</i>
100010	<i>spoñ-sems-pai dañ brtan-po</i>
101010010100	<i>rab-byuñ bitsun-pa byed-pa-la dgos-pa</i> <i>yod-do ?ao</i>
101010	<i>gžan-la mi-phod sñiñ-rdže</i>
101010	<i>bdag-gžan brdže-bai bsam-pa</i>
101010010100	<i>theg-tshen byañ-sems sgom-pa-la dgos-pa</i> <i>yod-do ?ao</i>
⋮	⋮

In the following verses, given in the *Bka-brgyud mgur-mtsho*, Mi-la ras-pa integrates trisyllabic forms into his metric pattern by similarly allowing an unstressed syllable to fill a strong position:

1010100	<i>mi-med brag-gi phug-pa-na</i>
1-1000100	<i>skyo phyod-de-ba-la sañs-rgyu med</i>
1010100	<i>bla-ma dam-pai sañs-rgyas-la</i>
1-1000100	<i>yid duñ-ñe-ba-la nbral-ba med</i>

Sometimes we find an initial sequence of one stressed and two unstressed syllables; in a meter with catalectic first feet, this is read as an unstressed syllable in the strong position of the second foot after catalexis in the first syllable—that is, as 1-00, rather than 100, in order to maintain parallel scansion with verses clearly beginning 1-10. This variation is found, for example, in the long and often strictly periodical mystic songs by Pad-ma dkar-po, where it is a permitted departure from the highly regular 1-1010100 line, as in this stanza from his *Rdo-rdže glui phreñ-ba sña-ma*:

1-1010100	<i>rañ gsol-ba ndebs-phyogs ma-log-na</i>
1-1010100	<i>tshe ndi-phyüü dgos-ndod dži-sñed-pa</i>
1-0010100	<i>bde-blag-tu ster-bai nus-pa mña</i>
1-1010100	<i>blo tsham-tshom med-pai gsol-ndebs nthal</i>

Similarly we can select the following stanzas from a long poem by Pad-ma

dkar-po, from the same collection, which uses the same metrical structure and variation:

1-1010100	<i>yid gñen-poi tshu-lon ma-bran-te</i>
1-0010100	<i>ndod-yon-gyi snañ-ba tsi-bkra-yañ</i>
1-0010100	<i>žen-tšhags-kyi sred-pa mi-ldañ-bas</i>
1-1010100	<i>khoñ bitsun-po tshogs-kyin ña-re brod</i>
1-0010100	<i>ndag-sbyar-gyi bsgom-yun ma-byas-te</i>
1-1010100	<i>lam ñams-su myoñ-bai drod-rtags-la</i>
1-0010100	<i>dži-lta-bai spu-ris phyed-pai phyir</i>
1-1010100	<i>grog sgom-tšhen tshogs-kyin ña-re brod</i>
1-0010100	<i>mi-bdag-pai brod-pa ndi-dag kyañ</i>
1-1010100	<i>pha mtshan-ldan bla-ma khoñ-gi drin</i>
1-1010100	<i>drin nkor-tabs med-pas gsol-ndebs ndi</i>
1-1010100	<i>rdže dam-pai sñan-la gzan-yañ byas</i>

5.7. VARIATION IN THE LAST FOOT

Where there is synalepha in the final foot of a verse, a poet seems permitted the occasional liberty of substituting a last foot of the form 110 for the usual final 100. We can cite the following examples from Sa-skya paññita's *Legs-par bśad-pa rin-po-tšei gter*:

1010100	<i>ñams-stobs tshuñ-bai skye-bo yañ</i>
1010100	<i>tshen-po gžan-la bsten-na ngrub</i>
1010100	<i>tshu-yi thigs-pa ñam-tshuñ yañ</i>
1010110	<i>mtsho-dañ ndra-na skam mi-nus</i>
1010110	<i>su-laañ bdag-gi dgra yin-pa</i>
1010100	<i>nga yañ bdag-la mi-byams žes</i>
1000110	<i>mi-byams-na yañ de mi-srag</i>
1010100	<i>bsgrags-na de-ñid sbyed-pai sel</i>
1010110	<i>gal-te dgra-la gnod ndod-na</i>
1010100	<i>rañ-ñid yon-tan ldan-par bya</i>
1010110	<i>de-yis dgra yañ sems bsreg-tšuñ</i>
1010100	<i>rañ yañ bsod-nams sphel-bar neyur</i>

We find the same variation permitted within a periodical meter in the following diatribe against beer, attributed to the Buddha himself in Ndžigs-med rigs-pai rdo-rdže's *Tṣhen-po hor-gyi yul-du dam-pai tshos dži-ltar byuñ-bai tshul bšad-pa rgyal-bai bstan-pa rin-po-tshe gsal-bar byed pai sgron-me*:

- | | |
|-----------|---|
| 100010100 | <i>tshañ-nthuñ-ba-la mñon-par dga-bai mi</i> |
| 101010110 | <i>bdag-la phan-dañ gžan-la bde mi-nus</i> |
| 101010110 | <i>rmoñs-pa mdog-ñan byed-pa tshañ yin-te</i> |
| 101010110 | <i>dži-ltar ha-lai dug-bžin de mi-btuñ</i> |

We can cite as a further example the following stanza from the *Rdo-rdže glui phreñ-ba sña-ma* by Pad-ma dkar-po:

- | | |
|-----------|--|
| 1-1010100 | <i>rañ ñams-len byed-tshul ma-log-na</i> |
| 1-1010110 | <i>rsa nkhor-lo drug-gi mdud grol-nas</i> |
| 1-0010110 | <i>bde-tshen-gyi ngros-bži mthar son-pai</i> |
| 1-1010110 | <i>tshe gtšig-gis sañs-rgyas ngrub ñes yin</i> |

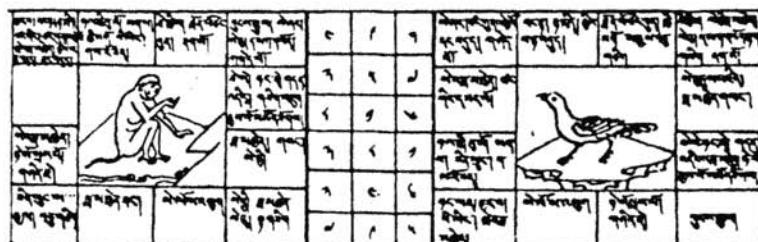


Figure 13. Page from an almanac

1. CULTURAL BACKGROUND

BECKWITH, Christopher I. *The Tibetan empire in Central Asia: a history of the struggle for great power among Tibetans, Turks, Arabs, and Chinese during the early Middle Ages*. Princeton: Princeton University Press, 1987.

BEYER, Stephan V. *The cult of Tārā. Magic and ritual in Tibet*. Berkeley: University of California Press, 1973.

DEMIÉVILLE, Paul. *Le concile de Lhasa*. Bibliothèque de l'Institut des Hautes Études Chinoises 7. Paris: Presses Universitaires de France, 1957.

EKVALL, Robert B. *Religious observances in Tibet: patterns and function*. Chicago: Univrsity of Chicago Press, 1964.

FILCHNER, Wilhelm. *Kumbum. Lamaismus in Lehre und Leben*. Zürich: Rascher Verlag, 1954.

HOFFMANN, Helmut. *The religions of Tibet*. Edward Fitzgerald, trans. London: George Allen and Unwin Ltd., 1961.

LESSING, Ferdinand. *Yung-ho-kung. An iconography of the lamaist cathedral in Peking*. In collaboration with Gosta Montell. Reports from the Scientific Expedition to the Northwestern Provinces of China under the Leadership of Dr. Sven Hedin 18. Stockholm: Goteborg Elanders, 1942.

LING, David Marshall. *The wisdom of Balahva. A Christian legend of the Buddha*. London: George Allen and Unwin Ltd., 1957.

SNELLGROVE, David. *Buddhist Himalaya*. Oxford: Bruno Cassirer, 1957.

SNELLGROVE, David and Hugh Richardson. *A cultural history of Tibet*. New York: Frederick A. Praeger, 1968.

STEIN, Rolf Alfred. *La civilisation tibétaine*. Paris: Dunod, 1967. Translated as *Tibetan civilization*. J.E. Stapleton Driver, trans. Stanford: Stanford University Press, 1972.

TUCCI, Giuseppe. *Indo-Tibetica*. Rome: Reale Academie d'Italie, 1932-41;

Lokesh Chandra, ed. *Sata-Pitaka Series 347-<353>*. New Delhi: Aditya Prakashan, 1988-.

TUCCI, Giuseppe. *The religions of Tibet*. Geoffrey Samuel, trans. Berkeley: University of California Press, 1980.

TUCCI, Giuseppe. *Tibet, land of snows*. J.E. Stapleton Driver, trans. Calcutta: Oxford & IBH Publishing Co., 1967.

TUCCI, Giuseppe. *Tibetan painted scrolls*. Virginia Vacca, trans. Rome: Libreria della Stato, 1949.

2. BIBLIOGRAPHIES

GRÖNBOLD, Günter. "Verzeichnisse tibetischer Handschriften und Blockdrucke. Ein bibliographische Übersicht." *Zentralasiatische Studien* 18:222-46, 1985.

HALE, Austin. *Research on Tibeto-Burman languages*, 63-155. Trends in Linguistics, State of the Art Report 14. New York: Mouton, 1982.

HUFFMAN, Franklin E. *Bibliography and index of mainland Southeast Asian languages and linguistics*. New Haven: Yale University Press, 1986.

LAPOLLA, Randy J. and John B. Lowe, with Amy Dolcourt. *Bibliography of the International Conferences on Sino-Tibetan Languages and Linguistics I-XXI*. Sino-Tibetan Etymological Dictionary and Thesaurus Monograph Series 1. Berkeley: Centers for South and Southeast Asian Studies, University of California—Berkeley, 1989.

NISHI Yoshio. "Bibliography of Tibeto-Burman languages of Nepal." In Hajime Kitamura, Tatsuo Nishida, and Yoshio Nishi, eds. *Tibeto-Burman studies I*, 85-104. Monumenta Serindica 6. Tokyo: Institute for the Study of Languages and Cultures of Asia and Africa, 1979.

SHAFER, Robert. *Bibliography of Sino-Tibetan languages*. Wiesbaden: Otto Harrassowitz, Vol. 1, 1957; Vol. 2, 1963.

3. GRAMMARS

BACOT, Jacques. *Grammaire du tibétain littéraire*. Paris, 1948.

- BERNARD, Theos. *A simplified grammar of the literary Tibetan language*. Santa Barbara: Tibetan Text Society, 1946.
- CORDIER, Palmyr. *Cours de tibétain classique*. Hanoi, 1908.
- CSOMA DE KÓRÖS, Alexander. *A grammar of the Tibetan language in English*. Calcutta, 1834; New York: Altai, 1970; Budapest: Akadémiai Kiadó, 1984.
- DAS, Sarat Chandra. *An introduction to the grammar of the Tibetan language, with the texts of Situ sum-tag, Dag-je salwai me-long, and Situi shal lung*. Darjeeling, 1915; Delhi: Motilal Banarsi Dass, 1972.
- FOUCAUX, Philippe Edouard. *Grammaire de la langue tibétaine*. Paris, 1858.
- HAHN, Michael. *Lehrbuch der klassischen tibetischen Schriftsprache*. Hamburg, 1971; Indica et Tibetica 10. Bonn: Indica et Tibetica Verlag, 1985.
- HANNAH, Herbert Bruce. *A grammar of the Tibetan language, literary and colloquial*. Calcutta, 1912; Delhi: Cosmo Publications, 1973.
- INABA Shōju. *Chibetto go koten bunpōgaku*. Kyoto, 1954.
- JÄSCHKE, Heinrich August. *Tibetan grammar*. Addenda by A.H. Francke, assisted by W. Simon. Berlin: de Gruyter, 1929.
- LALOU, Marcelle. *Manuel élémentaire de tibétain classique: méthode empirique*. Paris, 1950.
- MILLER, Roy Andrew. "A grammatical sketch of classical Tibetan." *Journal of the American Oriental Society* 90:74-96, 1970.
- PARFIONOVICH, Y.M. *Tibetskii pis'mennyi iazyk*. Languages of Asia and Africa. Moscow: Nauka Publishing House, 1970. Translated as *The written Tibetan language*. S.S. Gitman, trans. Languages of Asia and Africa. Moscow: Nauka Publishing House, 1982.
- POUCHA, Pavel. "The Tibetan language." *Central Asiatic Journal* 8:219-29, 1963.
- SCHIMDT, Isaac Jacob. *Grammatika tibetskago iazyka*. St. Petersburg, 1839. *Grammatik der tibetischen Sprache*. Leipzig, 1839; Leipzig: Zentral-Antiquariat der Deutschen Demokratischen Republik, 1968.

4. DICTIONARIES

BSTAN-NDZIN RNAM-RGYAL, Rje mkhan-po XIV. *Rañ-blo gsal-bai me-loñ-las*

- mñon-brdžod-kyi bstan-btšos bsam-phel nor-bu.* Thimpu: Kunzang Topgey, 1976.
- BSTAN-NDZIN PHUN-TSHOGS, Dil-mar~Deu-dmar dge-bšes. *Bod-yul-gyi brdai skad-las gyur-pa-mams gtan-la phab-pa legs-par shyar-bai sgra-bsgyur bstan-btšos le-tshan sum-tšu-pa.* Palampur: Sungarb Nyamso Gyunphel Parkhang, 1973.
- BUCK, Stuart H. *Tibetan-English dictionary.* Washington, DC: Catholic University of America Press, 1969.
- CHANDRA, Lokesh. *Tibetan-Sanskrit dictionary based on a close comparative study of Sanskrit originals and Tibetan translations of several texts.* Śata-Piṭaka Series 3. New Delhi: International Academy of Indian Culture, 1959-61; Kyoto: Rinsen Book Co., 1976; New Delhi: Sharada Rani, 1985.
- CHANDRA, Lokesh, ed. *Four Tibetan-Mongolian lexicons.* Śata-Piṭaka Series 289-90. New Delhi: Sharada Rani, 1982.
- CHOS-KYI GRAGS-PA, Bur-yad~Sog-po dge-bšes. *Brda-dag miñ-tshig gsal-ba.* Dharamsala: Damchoe Sangpo, 1980. Translated as *Tsang-wén tz'ü-tien.* Peking: Publishing House of the National Minorities, 1957.
- CSONKA DE KÓRÖS, Alexander. *A dictionary Tibetan and English.* Calcutta, 1834; Budapest: Akadémiai Kiadó, 1984.
- DAS, Sarat Chandra. *A Tibetan-English dictionary with Sanskrit synonyms.* Graham Sandberg and A. William Heyde, eds. Alipore: West Bengal Government Press, 1902; Delhi, Motilal Banarsi Dass, 1970.
- DESGODINS, Auguste. *Dictionnaire thibétain-latin-français par les missionnaires catholiques du Thibet.* Hong Kong, 1899.
- JÄSCHKE, Heinrich August. *A Tibetan-English dictionary with special reference to the prevailing dialects; to which is added a Tibetan-English vocabulary.* London, 1881; London: Routledge and Kegan Paul, 1958; Delhi: Motilal Banarsi Dass, 1982.
- PODSNEEV, A. *Učebnik tibetskoi meditsiny,* 247-301. St. Petersburg, 1908.
- RICHTER, Eberhard. *Tibetisch-deutsches Wörterbuch.* Leipzig: VEB Verlag Enzyklopädie, 1966.
- ROERICH, George Nicolas. *Tibetsko-russko-angliiskii slovar' s sanskritskimi paralleliami.* *Tibetan-Russian-English dictionary with Sanskrit parallels.* Y. Parfionovich and V. Dylykova, eds. Moscow: Central Department of Oriental Literature, 1983-87.

SAKAKI Ryōzaburō, ed. *Hon'yaku meigi taishū (Mahāvyutpatti)*. Kyoto, 1916; Kyoto, 1925 (with Sanskrit index); Tokyo: Suzuki Gakujutsu Zaidan, 1962 (with Tibetan index).

SANDBERG, Graham and A.W. Heyde. *Tibetan-English dictionary*. Calcutta, 1902.

SCHMIDT, Isaac Jacob. *Tibetisch-deutsches Wörterbuch, nebst deutschem Wortregister*. St. Petersburg, 1841; Osnabrück: Biblio Verlag, 1969.

SCHMIDT, Isaac Jacob. *Tibetsko-russkii slovar'*. St. Petersburg, 1843.

SEMICHOV, B.V., Y.M. Parfionovich, and B.D. Dandaron, *Kratkii tibetsko-russkii slovar'*. Moscow: Akademiiia Nauk, 1963.

SUMATRATNA. *Bod-hor-gyi brda-yig miñ-tshig don gsum gsal-bar byed-pai mun-sel sgron-me*. Corpus Scriptorum Mongolorum 6-7. Ulan-Bator, 1959.

THOMAS, Frederick William and L. Giles. "A Tibeto-Chinese word and phrase book." *Bulletin of the School of Oriental and African Studies* 12:753-69, 1948.

TSHE-RIÑ DBAÑ-RGYAL, Mdo-mkhar žabs-druñ. *Ñe-bar mkho-bai legs-sbyar-gyi bod-kyi brda kā-lii phreñ-bsgrigs ño-mushar nor-bui do-šal*. Dehra Dun: D.G. Khochhen Trulku, 1975. Also Jacques Bacot. *Dictionnaire tibétain-sanscrit par Tse-ring-ouang-gyal (Che riñ dhañ rgyal)*. Buddhica, 2d series, 2. Paris, 1930.

TSIG-TAN ŽABS-DRUÑ. *Dag-yig thon-miñ dgoñs-rgyan. Tsang-han tz'ü-hui*. Hsing-ning, 1957.

YE-SÉS RDO-RDŽE. *Bod-skad-kyi hrda gsar-rñiñ dka-ba sog-skad-du kā-li sum-tsiu rim pas gian-la phreb-pai brda-yig mkhas-pa rgya-mtsho blo-gsal mgul-rgyan tsen-byu-hu*. Corpus Scriptorum Mongolorum 4. Ulan-Bator, 1959.

YOSHIMURA Shūki. *Tibetan dictionary*. Kyoto: Ryūkoku University, 1955-56.

5. GLOSSARIES

ARIS, Michael. *Sources for the history of Bhutan*, 187-98. Wiener Studien zur Tibetologie und Buddhismuskunde 14. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1986.

BAILEY, D.R. Shackleton. *The Śatapañcāśatka of Mātṛceṭa*, 211-32. Cambridge: Cambridge University Press, 1951.

CONZE, Edward. *Abhisamayālañkāra*, 179-223. Serie Orientale Roma 6. Rome:

- Istituto Italiano per il Medio ed Estremo Oriente, 1954.
- FRANCKE, August Hermann. *A lower Ladakhi version of the Kesar saga*, 21-29, 74-83, 129-138, 160-163, 195-199, 250-255, 314-372. *Bibliotheca Indica* 1543. Calcutta, 1905-41.
- GRÖNWEDEL, Albert. *Die Legenden des Nā-ro-pa*, 159-233. Leipzig: Otto Harrassowitz, 1933.
- HAHN, Michael. *Candragominis Lokānandanāṭaka. Nach dem tibetischen Tanjur herausgegeben und übersetzt. Ein Beitrag zur indischen klassischen Schauspielidichtung*, 228-273. *Asiatische Forschungen* 39. Wiesbaden: Otto Harrassowitz, 1974.
- HAHN, Michael and Konrad Klaus. *Das mrgajātaka (Haribhṛajātakamālā XI)*, 71-106. *Indica et Tibetica* 3. Bonn: Indica et Tibetica Verlag, 1983.
- INAGAKI Hisao. *Index to the Larger Sukhāvatīvyūha Sūtra. A Tibetan glossary with Sanskrit and Chinese equivalents*, 1-138. Kyoto: Nagata Bunshodo, 1978.
- LAUFER, Berthold. *Ein Sühngedicht der Bonpo, aus einer Handschrift der Oxford Bodleiana*, 40-59. *Denkschriften der Wiener Akademie der Wissenschaften* XLVI.7. Wien, 1900.
- NAGAO, Gadjin M. *Index to the Mahāyāna-sūtrālamkāra (Sylvain Lévi edition)*, II.1-150. Tokyo: Nippon Gakujutsu Shinkō-kai, 1961.
- NAGAO, Gadjin M. *Madhyāntavibhāga-bhāṣya*, 149-180. Tokyo: Suzuki Research Foundation, 1964.
- NEBESKY-WOJKOWITZ, René de. *Oracles and demons of Tibet: the cult and iconography of the Tibetan protective deities*, 605-52. London: Oxford University Press, 1956.
- NISHIO Kyō. *Tibetan index to the Mahāvyutpatti with Sanskrit equivalents*. Kyoto, 1936. Reprinted in Ryōzaburō Sakaki; ed. *Hon'yaku meigi taishū (Mahāvyutpatti)*. Tokyo: Suzuki Gakujutsu Zaidan, 1962.
- NOBEL, Johannes. *Suvarṇaprabhāsottamasūtra: das Goldglanzsutra. Vol. 2. Wörterbuch Tibetisch-Deutsch-Sanskrit*. Leiden: E.J. Brill, 1950.
- NOBEL, Johannes. *Udrāyaṇa, König von Roruka. Eine buddhistische Erzählung. Die tibetische Übersetzung des Sanskrittextes, Vol. 2, Wörterbuch*. Wiesbaden, Otto Harrassowitz, 1955.
- SASTRI, N. Aiyaswami. *Ārya Śālistamba sūtra, Pratītyasamutpādavibhanga nirdeśasūtra, and Pratītyasamutpādagāthā sūtra*, 73-97. The Adyar Library Series

76. Adyar: Adyar Library, 1950.

SNELLGROVE, David L. *The Hevajra Tantra. A critical study. Part 2, Sanskrit and Tibetan texts*, 161-177. London Oriental Series 6. London: Oxford University Press, 1959.

SNELLGROVE, David L. *The nine ways of Bon. Excerpts from gZi-brjid edited and translated*, 291-312. London Oriental Series 18. London: Oxford University Press, 1967; Boulder: Prajñā Press, 1980.

STEIN, Rolf Alfred. *L'épopée tibétaine de Gesar, dans sa version lamaïque de Ling*, 354-99. Annales du Musée Guimet, Bibliothèque d'Études 61. Paris: Presses Universitaires de France, 1956.

STEIN, Rolf Alfred. "Vocabulaire tibétaine de la biographie de 'Brug-pa Kun-legs.'" *Zentralasiatische Studien* 8:129-78, 1974.

SUZUKI, Daisetz Teitaro. *An index to the Lankavatara Sutra*, Nanjio edition. Kyoto: Sanskrit Buddhist Text Publication Society, 1934.

THOMAS, Frederick William. *Tibetan literary texts and documents concerning Chinese Turkestan*, Part III, 112-192. London: Royal Asiatic Society, 1955.

TSUDA Shinichi. *The Saṃvarodaya-Tantra. Selected chapters*, 384-408. Tokyo: The Hokuseido Press, 1974.

WELLER, Friedrich. *Index to the Tibetan translation of the Kāgyapaparivarta*. Harvard Sino-Indian Series 1. Cambridge: Harvard-Yenching Institute, 1937.

WELLER, Friedrich. *Tibetisch-sanskritischer Index zum Bodhicaryāvatāra*. Abhandlungen der Leipziger Akademie der Wissenschaften 46-47. Berlin, 1952-55.

ZIMMERMANN, Heinz. *Die Subhāṣita-ratna-karandaka-kathā (dem Āryaśūra zugeschrieben) und ihre tibetische Übersetzung. Ein Vergleich zur Darlegung der Irrtumsrisiken bei der Auswertung tibetischer Übersetzungen*, 248-55. Freiburger Beiträge zur Indologie 8. Wiesbaden: Otto Harrassowitz, 1975.

6. PLACE NAMES

FERRARI, Alfonsa. *Mk'yen brtse's guide to the holy places of Central Tibet*. Luciano Petech, ed. Serie Orientale Roma 16. Rome: Istituto Italiano per il Medio ed Estremo Oriente, 1958.

LALOU, Marcelle. "Catalogue des principautés du Tibet ancien." *Journal*

asiatique 253:189-215, 1965.

MEISEZAHN, R.O. *Die grosse Geschichte des tibetischen Buddhismus nach alter Tradition. Dritter Teil. Glossar der Eigennamen. I. Geographische Namen, Klöster, Tempel- und Herkunftsnamen der Personen*, 395-420. *Monumenta Tibetica Historica. Abteilung I: Scriptores* 3. Sankt Augustin: VGH Wissenschaftsverlag, 1985.

NEBESKY-WOJKOWITZ, René de. *Oracles and demons of Tibet: the cult and iconography of the Tibetan protective deities*, 652-57. London: Oxford University Press, 1956.

ROCK, Joseph Francis. *The Amnye Ma-chhen range and adjacent regions, a monographic study*. Serie Orientale Roma 12. Rome: Istituto Italiano per il Medio ed Estremo Oriente, 1956.

RUEGG, D. Seyfort. *The life of Bu ston Rin po che, with the Tibetan text of the Bu ston rNam thar*, 187-91. Serie Orientale Roma 34. Rome: Istituto Italiano per il Medio ed Estremo Oriente, 1966.

SCHLAGINTWEIT, Hermann de. "Glossary of Tibetan geographical terms collected by Hermann, Adolphe, and Robert de Schlagintweit." *Journal of the Royal Asiatic Society* 20:67-98, 1863.

THOMAS, Frederick William. *Tibetan literary texts and documents concerning Chinese Turkestan*, Part IV, 40-84. London: Royal Asiatic Society, 1955.

WYLIE, Turrell V. *The geography of Tibet according to the 'Dzam-gling-rgyas-bshad*. Serie Orientale Roma 25. Rome: Istituto Italiano per il Medio ed Estremo Oriente, 1962.

WYLIE, Turrell V. *A place name index to George N. Roerich's translation of the Blue Annals*. Serie Orientale Roma 15. Rome: Istituto Italiano per il Medio ed Estremo Oriente, 1957.

ZACH, Erwin von. "Tibetische Ortsnamen." *Lexicographische Beiträge* 1:83-98, 1902; 3:108-35, 1905.

7. LEXICOGRAPHIC STUDIES

COBLIN, Weldon South. "An early Tibetan word for horse." *Journal of the American Oriental Society* 94:124-5, 1974.

COBLIN, Weldon South. "A note on Tibetan *mu*." *Linguistics of the Tibeto-*

Burman Area 10.1:166-8, 1987.

COBLIN, Weldon South. "Notes on Old Tibetan *Rje-blas*." Paper presented at the twenty-third annual International Conference on Sino-Tibetan Languages and Linguistics, University of Texas, Arlington, 1990.

EIMER, Helmut. "dByañs-can dga'-ba'i blo-gros' explanation of some expressions from the Sa skya legs bšad." In Helmut Eimer, ed. *Vicitrakusumāñjali. Volume presented to Richard Othon Meisezahl on the occasion of his eightieth birthday*, 49-60. *Indica et Tibetica* 11. Bonn: Indica et Tibetica Verlag, 1986.

EKVALL, Robert B. "Correlation of contradictions: a Tibetan semantic device." In William C. McCormack and Stephen A. Wurm, eds. *Language and thought: anthropological issues*, 325-6. The Hague: Mouton & Co., 1977; also in James F. Fisher, ed. *Himalayan anthropology: the Indo-Tibetan interface*, 251-62. The Hague: Mouton, 1978.

EMMERICK, Ronald Eric. "Some lexical items from the *Rgyud-bži*." In *Proceedings of the Csoma de Körös Memorial Symposium*, 101-8. *Bibliographia Orientalis Hungarica* 23. Budapest: Akadémiai Kiadó, 1978.

EMMERICK, Ronald Eric. "Some lexical items from the *Siddhasāra*." In Ernest Steinkellner and Helmut Tauscher, eds. *Contributions on Tibetan Language, History, and Culture. Proceedings of the Csoma de Körös Symposium held at Velm-Vienna, Austria, 13-19 September 1981*, I.61-68. *Wiener Studien zur Tibetologie und Buddhismuskunde* 10. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1983.

EMMERICK, Ronald Eric. "Some more loanwords in Khotanese." *Die Sprache: Zeitschrift für Sprachwissenschaft* 29:43-9, 1983.

EMMERICK, Ronald Eric. "Tibetan lexical notes." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Körös*, I.207-10. Budapest: Akadémiai Kiadó, 1984.

EMMERICK, Ronald Eric. "Tibetan *nor-ra-re*." *Bulletin of the School of Oriental and African Studies* 51:537-39, 1988.

HAMM, F.R. "Tibetsche *dbus* and *yul dbus*." *Indo-Iranian journal* 4:1-3, 1959.

HOFFMANN, Helmut. "Probleme und Aufgaben der tibetischen Philologie." *Zeitschrift der deutschen morgenländischen Gesellschaft* 92:345-68, 1938.

HOFFMAN, Helmut. "The Tibetan names of the Saka and the Sogdians." *Asiatische Studien* 25:440-55, 1971.

HOUSTON, Gary W. "Cig car, cig char, ston: note on a Tibetan term." *Central Asiatic Journal*, 20:41-6, 1976.

IMAEDA Yoshiro. "Towards an interpretation of the word chis." In Michael V. Aris and Aung San Suu Kyi, eds. *Tibetan studies in honour of Hugh Richardson: proceedings of the International Seminar on Tibetan Studies, Oxford*, 131-32. Westminster: Aris & Phillips, 1979; Atlantic Highlands, NJ: Humanities Press, 1981.

JONG, Jan Willem de. "Tibetan blag-pa and blags-pa." *Bulletin of the School of Oriental and African Studies* 36:309-12, 1972.

KANIA, Ireneusz. "The seventh chapter of the rGyal-rabs gsal-ba'i me-long and a problem of Tibetan etymology." *Folia Orientalia* 15:247-58, 1974; also in *Tibet Journal* 3.3:12-20, 1978.

KÖHALMI, Katalin. "Über die pfeifenden Pfeile der innerasiatischen Reiternomaden." *Acta Orientalia Hungaricae* 3:45-71, 1954.

LAUFER, Berthold. "Loan words in Tibetan." *T'oung Pao* 17:404-552, 1916; Leiden: E.J. Brill, 1918. Reprinted in Hartmut Walravens and Lokesh Chandra, eds. *Sino-Tibetan studies*, II.483-632. New Delhi: Rakesh Goel, 1987.

LI Fang-kuei. "Notes on Tibetan sog." *Central Asiatic Journal* 3:139-42, 1957.

LI Fang-kuei. "A Sino-Tibetan glossary from Tun-huang." *T'oung Pao* 49:233-356, 1962; Leiden: E.J. Brill, 1963.

LI Fang-kuei. "Tibetan Glo-ba-'dring." *Studia Serica Bernhard Karlgren dedicata*, 55-9. Copenhagen, 1959.

MATISOFF, James A. "Hearts and minds in South-East Asian languages and English: an essay in the comparative lexical semantics of psycho-collocations." *Cahiers de linguistique Asie Orientale* 15.1:5-57, 1986.

MEISEZAHN, R.O. "Tibetisch margad, smaragd*." *Ural-Altaische Jahrbücher* 35: 204-12, 1963.

MORIYASU Takao. "La nouvelle interprétation des mots Hor et Ho-yo-hor dans le manuscrit Pelliot tibétain 1283." *Acta Orientalia Hungaricae* 34:171-84, 1980.

OETKE, Claus. *Die aus dem Chinesischen übersetzten tibetischen Versionen des Suvarṇaprabhāsāsūtra. Philologische und linguistische Beiträge zur klassifizierenden Charakterisierung übersetzte Texte. Alt- und Neu-Indische Studien* 18. Wiesbaden: Franz Steiner Verlag, 1977.

- RICHARDSON, Hugh E. "Names and titles in early Tibetan records." *Bulletin of Tibetology* 4.1:5-20, 1967.
- RICHARDSON, Hugh E. "Tibetan *chis* and *tschis*." *Asia Major* 14:254-6, 1969.
- RÓNA-TAS, András. "On a term of taxation in the Old Tibetan Royal Annals." In *Proceedings of the Csoma de Körös Memorial Symposium*, 357-63. *Bibliographia Orientalis Hungarica* 23. Budapest: Akadémiai Kiadó, 1978.
- RÓNA-TAS, András. "Social terms in the list of grants of the Tibetan Tun-huang chronicle." *Acta Orientalia Hungaricae* 5:249-70, 1955.
- SÁRKÖZI, Alice. "Some words on the Mongolian Mahāvyutpatti." *Acta Orientalia Hungaricae* 34:219-34, 1980.
- SÁRKÖZI, Alice. "A Tibeto-Mongolian manuscript of lexicographic explanations to the *Rgyud-bzī*." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Körös*, II.249-79. Budapest: Akadémiai Kiadó, 1984.
- SEDLÁČEK, Kamil. "The numeral system of classification of catchwords in Tibetan lexicography." *Zeitschrift der deutschen morgenländischen Gesellschaft* 110:74-82, 1960.
- SIMON, Walter. "Cognates of Tibetan *rañs-pa* ('entire, complete')." *Academia Sinica: Bulletin of the Institute of History and Philology* 39:287-9, 1969.
- SIMON, Walter. "Some Tibetan etymologies of semantic interest." *Bulletin of the School of Oriental and African Studies* 43:132-6, 1980.
- SIMON, Walter. "Tibetan *gveb* and cognate words." *Bulletin of the School of Oriental and African Studies* 20:523-32, 1957.
- SIMON, Walter. "Tibetan lexicography and etymological research." *Transactions of the Philological Society* (1964):85-107, 1964.
- SIMON, Walter. "Tibetan *nyin-rans* and *t'o-rans*." *Asia Major* 12:179-84, 1966.
- SIMON, Walter. "Tibetan *par*, *dpar*, *spar*, and cognate words." *Bulletin of the School of Oriental and African Studies* 25:72-80, 1962.
- SIMON, Walter. "The Tibetan particle *re*." *Bulletin of the School of Oriental and African Studies* 30:117-26, 1967.
- SIMON, Walter. "Tibetan *re* in its wider context." *Bulletin of the School of Oriental and African Studies* 31:555-62, 1968.
- SIMON, Walter. "Tibetan *stes*, *stes-te*, etc., and some of their Sanskrit corres-

- pondences." *Bulletin of the School of Oriental and African Studies* 42:334-6, 1979.
- SIMONSSON, Nils. "Sanskrit *na* and Tibetan *ma yin*." *Orientalia Suecana* 9:11-27, 1960.
- SOMLAI, G. "Preliminary investigation of a Tibetan medical chart." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Körös*, II.313-19. Budapest: Akadémiai Kiadó, 1984.
- STEIN, Rolf Alfred. "Un ensemble sémantique tibétain: créer et procréer, être et devenir, vivre, nourrir, et guérir." *Bulletin of the School of Oriental and African Studies* 36:412-23, 1973.
- STEIN, Rolf Alfred. "Notes d'étymologie tibétain." *Bulletin de l'École Française d'Extrême-Orient* 41:203-31, 1941.
- STEIN, Rolf Alfred. "«Saint et divin», un titre tibétain et chinois des rois tibétains." *Journal Asiatique* 269: 231-75, 1981.
- STEIN, Rolf Alfred. "Sudden illumination or simultaneous comprehension: remarks on Chinese and Tibetan terminology." In Peter N. Gregory, ed. *Sudden and gradual: approaches to enlightenment in Chinese thought*, 41-65. Studies in East Asian Buddhism 5 Honolulu: University of Hawaii Press, 1987.
- STEIN, Rolf Alfred. "Tibetica antiqua I. Les deux vocabulaires des traductions indo-tibétaine et sino-tibétaine dans les manuscrits de Touen-Houang." *Bulletin de l'École Française d'Extrême-Orient* 72:149-236, 1983.
- STEIN, Rolf Alfred. "Tibetica antiqua III. A propos du mot *gcug-lag* et de la religion indigène." *Bulletin de l'École Française d'Extrême-Orient* 74:83-133, 1985.
- TAUBE, Manfred. "Zu einigen Texten der tibetischen *brda-gsar-rñün*-Literatur." In Eberhard Richter and Manfred Taube, eds. *Asienwissenschaftliche Beiträge: Johannes Schubert in memoriam*, 169-201. Veröffentlichungen des Museums für Völkerkunde zu Leipzig 32. Berlin: Akademie-Verlag, 1978.
- TERJÉK, J. "Die Wörterbücher der vorklassischen tibetischen Sprache." In *Proceedings of the Csoma de Körös Memorial Symposium*, 503-9. *Bibliographia Orientalis Hungarica* 23. Budapest: Akadémiai Kiadó, 1978.
- UEBACH, Helga. "Notes on the Tibetan kinship term *dbon*." In Michael V. Aris and Aung San Suu Kyi, eds. *Tibetan studies in honour of Hugh Richard-*

son: proceedings of the International Seminar on Tibetan Studies, Oxford, 301-9. Westminster: Aris & Phillips, 1979; Atlantic Highlands, NJ: Humanities Press, 1981.

URAY, Géza. "À propos du tibétain *rgod-g-yuñ*." In *Études tibétaines dédiées à la mémoire de Marcelle Lalou*, 553-57. Paris: Adrien-Maisonneuve, 1972.

URAY, Géza. "The four horns of Tibet according to the Royal Annals." *Acta Orientalia Hungaricae* 10:31-57, 1960.

URAY, Géza. "Greñ, the alleged Old Tibetan equivalent of the ethnic name *Ch'iang*." *Acta Orientalia Hungaricae* 19:245-56, 1966.

URAY, Géza. "Notes on a Tibetan military document from Tun-huang." *Acta Orientalia Hungaricae* 12:223-30, 1961.

URAY, Géza. "Old Tibetan *dra-ma-drañs*." *Acta Orientalia Hungaricae* 14:219-30, 1962.

URAY, Géza. "The old Tibetan verb *bon*." *Acta Orientalia Hungaricae* 17:323-34, 1964.

URAY-KÖHALMI, Käthe. "Der pfeil bei den innerasiatischen Reiternomaden und ihre Nachbarn." *Acta Orientalia Hungaricae* 6:109-61, 1956.

WILHELM, Friedrich. "Ein Beitrag zur tibetischen Lexikographie." *Central Asiatic Journal* 7:212-25, 1962.

WYLINE, Turrell V. "Etymology of Tibetan *Bla-ma*." *Central Asiatic Journal* 21: 145-8, 1977.

8. TIBETAN TEXTS

ARIS, Michael. *Sources for the history of Bhutan*. Wiener Studien zur Tibetologie und Buddhismuskunde 14. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1986.

BACOT, Jacques. *La vie de Marpa le 'traducteur.'* Buddhica, 1st series, 7. Paris: Librairie Orientaliste Paul Geuthner, 1937.

BACOT, Jacques. *Zugñima*. Cahiers de la Société Asiatique 14. Paris, 1957.

BACOT, Jacques, F.W. Thomas and Ch. Toussaint. *Documents de Touen-houang relatifs à l'histoire du Tibet*. Annales du Musée Guimet, Bibliothèque d'Études 51. Paris, 1946.

- BALBIR, Jagbans Kishore. *L'histoire de Rāma en tibétain d'après les manuscrits de Touen-houang*. Collection Jean Przyluski 4. Paris: Adrien-Maisonneuve, 1963.
- BOSSON, James Evert. *A treasury of aphoristic jewels: the Subhāṣitaratnaṇidhi of Sa Skya Paṇḍita in Tibetan and Mongolian*. Uralic and Altaic Series 92. Bloomington: Indiana University, 1969.
- DARGYAY, Lobsang. *Guñ thañ dKon mchog bsTan pa'i sgron me'i mam thar mdor bsdus bZugs. A concise biography of Guñ thañ dKon mchog bsTan pa'i sgron me*. Wiener Studien zur Tibetologie und Buddhismuskunde 6. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1981.
- DEWANG, N. Norbu. "Musical tradition of the Tibetan people. Songs in dance measure." In *Orientalia Romana* 2:205-347. Serie Orientale Roma 36. Rome: Istituto Italiano per il Medio ed Estremo Oriente, 1967.
- EIMER, Helmut. *Rnam thar rgyas pa. Materialen zu einer Biographie des Atīśa (Dīpaṃkaraśrījñāna)*. Asiatische Forschungen 67. Wiesbaden: Otto Harrassowitz, 1979.
- EIMER, Helmut. "Ein Saskya pa-Gebet." *Zentralasiatische Studien* 2:151-78, 1968.
- EMMERICK, Ronald Eric. *Tibetan texts concerning Khotan*. London Oriental Series 19. London: Oxford University Press, 1967.
- FILIBECK, Elena De Rossi. *Two Tibetan guide books to Ti se and La phyi*. Monumenta Tibatica Historica. Abteilung I: Scriptores 4. Bonn: VGH Wissenschaftsverlag, 1988.
- FRANCKE, August Hermann. *Antiquities of Indian Tibet, Part II: The chronicles of Ladakh and minor chronicles*. Archeological Survey of India 50. Calcutta, 1926.
- FRANCKE, August Hermann. "gZer-myig. A book of the Tibetan Bon-pos, edited and translated." *Asia Major* 1:243-346, 1924; 3:321-339, 1926; 4:161-239, 481-540, 1927; 5:1-40, 1930; 6:299-314, 1930.
- FRANCKE, August Hermann. *A lower Ladakhi version of the Kesar saga*. Bibliotheca Indica 1543. Calcutta, 1905-41.
- GRÖNWEDEL, Albert. *Die Legenden des Nā-ro-pa*. Leipzig: Otto Harrassowitz, 1933.

HELEFFER, Mireille. *Les chants de l'épopée tibétaine de Ge-sar d'après le livre de la course de cheval, Version chantée de Blo-bzañ bstan-'jin.* Centre de Recherches d'Histoire et de Philologie de la IV^e section de l'École Pratique des Hautes Études 2, Hautes Études Orientales 9. Genève: Librairie Droz, 1977.

HOFFMANN, Helmut. *Quellen zur Geschichte des tibetischen Bon-Religion.* Akademie der Wissenschaften und der Literatur, Abhandlung der Geistes- und Sozialwissenschaftlichen Klasse 4. Wiesbaden, 1950.

HOUSTON, Gary W. *Sources for a history of the bSam yas debate.* Monumenta Tibetica Historica. Abteilung I: Scriptores 2. Sankt Augustin: VGH Wissenschaftsverlag, 1980.

HUTH, Georg. *Geschichte der Buddhismus in der Mongolei.* Strassburg: Trübner, 1893-96.

JONG, Jan Willem de. *Mi la ras pa'i mam thar. Texte tibétain de la vie de Milarépa.* Indo-Iranian monographs 4. The Hague: Mouton & Co., 1959.

JONG, Jan Willem de. "The Tun-huang manuscripts of the Tibetan Rāmāyaṇa story." *Indo-Iranian Journal* 19:37-88, 1977.

KAMTAY, Samten G. *The treasury of good sayings: a Tibetan history of Bon.* London Oriental Series 26. London: Oxford University Press, 1972.

KASCHEWSKY, Rudolf. "Die Lehrworte des Pha-dam-pa." In Rudolf Kaschewsky, Klaus Sagaster, and Michael Weiers, eds. *Serta Tibeto-Mongolica. Festschrift für Walther Heissig zum 60. Geburtstag,* 171-204. Wiesbaden: Otto Harrassowitz, 1973.

KASCHEWSKY, Rudolf and Pema Tsing. *Die Eroberung der Burg von Sum-pa.* Asiatische Forschungen 94. Wiesbaden: Otto Harrassowitz, 1987.

KASCHEWSKY, Rudolf and Pema Tsing. "Gesars Abwehrkampf gegen Kaschmir." *Zentralasiatische Studien* 6:273-98, 1972.

KASCHEWSKY, Rudolf and Pema Tsing. *Das Leben der Himmelsfee 'Gro-ba bzañ-mo. Ein buddhistisches Theaterstück.* Tibetische Texte aus Nepal 1. Wien: Octopus Verlag, 1975.

KASCHEWSKY, Rudolf and Pema Tsing. "Die Niederschlagung des Empörs von Nag-roñ und andere Reminiszenzen des Dpal-sprul Rin-po-čhe." *Zentralasiatische Studien* 7:443-75, 1973.

KLAUS, Christa. *Schutz vor den Naturgefahren. Tibetische Ritualtexte aus dem*

- Rin chen gter mdzod.* Asiatische Forschungen 97. Wiesbaden: Otto Harrassowitz, 1985.
- KŁAFKOWSKI, Piotr. *The secret deliverance of the sixth Dalai Lama as narrated by Dharmatāla.* Wiener Studien zur Tibetologie und Buddhismuskunde 3. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1979.
- KOLMAS, Josef. "Dezhung Rinpoche's summary and continuation of the Sde-dge'i rgyal-rabs." *Acta Orientalia Hungaricae* 42:119-52, 1988.
- KUZNETSOV, B.I. *Rgyal rabs gsal ba'i me long.* Scripta Tibetana 1. Leiden: E.J. Brill, 1966.
- KVAERNE, Per. "A chronological table of the Bon Po. The Bstan rcis of Ni ma bstan 'jin." *Acta Orientalia* 33:205-82, 1971.
- KVAERNE, Per. "Un nouveau document relatif à l'épopée tibétaine de Gesar." *Bulletin de l'École Française d'Extrême-Orient* 58:221-229, 1971.
- LALOU, Marcelle. "Fiefs poisons et guérisseurs." *Journal asiatique* 246:157-201, 1958.
- LALOU, Marcelle. "Sutra du Bodhisattva 'Roi de la Loi.'" *Journal asiatique* 249:321-32, 1961.
- LAUFER, Berthold. *Der Roman einer tibetischen Königen. Tibetischer Text und Übersetzung.* Leipzig: Otto Harrassowitz, 1911.
- LAUFER, Berthold. *Ein Sühngedicht der Bonpo, aus einer Handschrift der Oxford Bodleiana,* 40-59. Denkschriften der Wiener Akademie der Wissenschaften XLVI.7. Wien, 1900.
- LESSING, Ferdinand D. and Alex Wayman. *Mkhas grub rje's Fundamentals of the Buddhists Tantras.* Indo-Iranian Monographs 8. The Hague: Mouton, 1968.
- LI Fang-kuei. "The inscription of the Sino-Tibetan treaty 821-822." *T'oung Pao* 44:1-99, 1956.
- LINDTNER, Christian. "Atīśa's introduction to the two truths, and its sources." *Journal of Indian Philosophy* 9:161-214, 1981.
- MACDONALD, Alexander W. *Matériaux pour l'étude de la littérature populaire tibétaine I.* Annales du Musée Guimet, Bibliothèque d'Études 72. Paris: Presses Universitaires de France, 1967.
- MACDONALD, Alexander W. *Matériaux pour l'étude de la littérature populaire*

- tibétaine II.* Paris: Librairie C. Klincksieck, 1972.
- MANEN, Johan van. *Minor Tibetan texts, I: The song of the eastern snow mountains.* Bibliotheca Indica, new series 1426. Calcutta, 1919.
- NOBEL, Johannes. *Udrāyaṇa, König von Roruka. Eine buddhistische Erzählung. Die tibetische Übersetzung des Sanskrittextes.* Wiesbaden, Otto Harrassowitz, 1955.
- NORBU, Thubten Jigme and Robert B. Ekwall. *The younger brother Don Yod.* Bloomington: Indiana University Press, 1969.
- RICHARDSON, Hugh E. *Ancient historical edicts at Lhasa and the Mu Tsung/Khri Gisung Lde Brtsan treaty of A.D. 821-822 from the inscription at Lhasa.* Royal Asiatic Society Prize Publication Fund 19. London, 1952.
- RICHARDSON, Hugh E. "A new inscription of Khri Srong Lde Brtsan." *Journal of the Royal Asiatic Society* (1964):1-13, 1964.
- RICHARDSON, Hugh E. "A ninth-century inscription from Rkoñ-po." *Journal of the Royal Asiatic Society* (1954):157-73, 1954.
- RICHARDSON, Hugh E. "The Sino-Tibetan treaty inscription of A.D. 821/823 at Lhasa." *Journal of the Royal Asiatic Society* (1978):137-62, 1978.
- RICHARDSON, Hugh E. "The Skar-cung inscription." *Journal of the Royal Asiatic Society* (1973):12-20, 1973.
- RICHARDSON, Hugh E. "Three ancient inscriptions from Tibet." *Journal of the Royal Asiatic Society of Bengal* 15:45-64, 1949.
- RICHARDSON, Hugh E. "Tibetan inscriptions at Žva-hi Lha Khañ, I-II." *Journal of the Royal Asiatic Society* (1952):133-54, 1954; (1953):1-12, 1953.
- RICHARDSON, Hugh E. *A corpus of early Tibetan inscriptions.* Hertford: Royal Asiatic Society, 1985.
- RUEGG, D. Seyfort. *The life of Bu ston Rin po che, with the Tibetan text of the Bu ston rNam thar.* Serie Orientale Roma 34. Rome: Istituto Italiano per il Medio ed Estremo Oriente, 1966.
- SCHIEFNER, Franz Anton von. *Taranathae de doctrinae Buddhicae in India propagatione narratio. Contextum Tibeticum e codicibus Petropolitanis edidit.* St. Petersburg, 1868.
- SCHIEFNER, Franz Anton von. *Über das Bon-po Sutra, Das Weisse Niço-Hunderttausnd.* Mémoires de l'Académie Impériale de St. Petersbourg, VII.

28. St. Petersburg, 1880.

SCHUH, Dieter. "Der chinesische Steinkries. Ein Beitrag zur Kenntnis der sino-tibetischen Divinationskalkulationen." *Zentralasiatische Studien* 7:353-423, 1973.

SCHUH, Dieter. "Ein Rechtsbrief der 7. Dalai Lama für den Tibetischen Residenten am Stūpa von Bodhnāth." *Zentralasiatische Studien* 8:423-53, 1974.

SNELLGROVE, David L. *Four lamas of Dolpo: autobiographies of four Tibetan lamas (15th-18th centuries)*. Oxford: Bruno Cassirer, 1967.

SNELLGROVE, David L. *The nine ways of Bon. Excerpts from gZi-brjid edited and translated*. London Oriental Series 18. London: Oxford University Press, 1967; Boulder: Prajñā Press, 1980.

SORENSEN, Per K. "Tibetan love lyrics: the love songs of the sixth Dalai Lama: an annotated critical edition of *Tshañs-dbyāñs rgya-mtsho'i mgul-glu*." *Indo-Iranian Journal* 31:253-98, 1988.

STEIN, Rolf Alfred. *Une chronique ancienne de bSam-yas: sBa-bžed*. Publications de l'Institut des Hautes Études Chinoises, Textes et Documents 1. Paris, 1961.

STEIN, Rolf Alfred. *L'épopée tibétaine de Gesar, dans sa version lamaïque de Ling*. Annales du Musée Guimet, Bibliothèque d'Études 61. Paris: Presses Universitaires de France, 1956.

STEIN, Rolf Alfred. "Le texte tibétain de 'Brug-pa Kun-legs.'" *Zentralasiatische Studien* 7:9-219, 1973.

STEINKELLNER, Ernst. *Rnam thar sgo gsum gyi mam par bzag pa, legs bšad rgya mtsho'i rba labs by Guñ thañ Dkon mchog btsan pa'i sgron me*. Wiener Studien zur Tibetologie und Buddhismuskunde 7. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1981.

TERJÉK, Jozsef. "Fragments of the Tibetan sutra of 'The wise and the fool' from Tun-huang." *Acta Orientalia Hungaricae* 22:289-334, 1969; 23:55-83, 1970.

THOMAS, Frederick William. *Ancient folk-literature from north-eastern Tibet*. Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin, Klasse für Sprachen, Literatur un Kunst, Jahrgang 1952 Nr. 3. Berlin: Akademie-Verlag, 1957.

THOMAS, Frederick William. *Tibetan literary texts and documents concerning*

- Chinese Turkestan*. London: Royal Asiatic Society, 1935-55.
- TILLEMANS, Tom J.F. "Two Tibetan texts on the 'neither one nor many' argument for *śūnyatā*." *Journal of Indian Philosophy* 12:357-88, 1984.
- TUCCI, Giuseppe. *Deb ter dmar po gsar ma. Tibetan chronicles by bSod nams grags pa*. Serie Orientale Roma 24. Rome: Istituto Italiano per il Medio ed Estremo Oriente, 1971.
- TUCCI, Giuseppe. *Tibetan folksongs from Gyantse and Western Tibet*. Ascona: Artibus Asiae, 1966.
- TUCCI, Giuseppe. *The tombs of the Tibetan kings*. Serie Orientale Roma 1. Rome: Istituto Italiano per il Medio ed Estremo Oriente, 1950.
- YÜ Tao-ch'üan and Chao Yuen-ren. *Love songs of the sixth Dalai Lama Ts'anś-dbyāns-rgya-mts'o*. Academia Sinica Monograph 5. Taipei, 1930.

9. TIBETAN TRANSLATIONS FROM SANSKRIT

- BAILEY, D.R. Shackleton. *The Śatapañcāśatka of Mātṛceṣṭa*. Cambridge: Cambridge University Press, 1951.
- BETHLENFALVY, Géza. "The Śatagathā attributed to Vararuci." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Kőrös*, I.17-58. Budapest: Akadémiai Kiadó, 1984.
- BHATTACHARYA, Vidhushekhar. *Bodhicaryāvatāra of Śāntideva*. Bibliotheca Indica 1580. Calcutta: The Asiatic Society, 1960.
- BHATTACHARYA, Vidhushekhar. *The Catuhśataka of Āryadeva. Sanskrit and Tibetan texts with copious extracts from the commentary of Candrakīrti*. Calcutta: Visva-Bharati, 1931.
- BHATTACHARYA, Vidhushekhar. *Nāgānanda-nāṭaka of Śrīharṣadeva*. Bibliotheca Indica 1574. Calcutta: The Asiatic Society, 1957.
- BOSE, Phanindra Nath. *Pratimā-māna-lakṣaṇam*. Lahore: Moti Lal Banarsi Das, 1929; Delhi: Bharatiya Publishing House, 1978.
- CHATTOPADHYAYA, Durgacharan. *Hetutattvaopadeśa of Jitāri. Reconstructed Sanskrit text with the Tibetan version*. Calcutta: University of Calcutta, 1939.
- DARGYAY, Lobsang. *Die Legenden von den sieben Prinzessinnen (Sapta-*

kumārikā-āvadāna) in der poetischen Fassung von Guhyadatta/Gopadatta aufgrund der tibetischen Überstezung. Wiener Studien zur Tibetologie und Buddhismuskunde 2. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1978.

DIETZ, Siglinde. *Die buddhistische Briefliteratur Indiens. Nach dem tibetischen Tanjur.* Asiatische Forschungen 84. Wiesbaden: Otto Harrassowitz, 1984.

EIMER, Helmut. *Bodhipathapradīpa. Ein Lehrgedicht des Atīśa (Dīpaṇkara-Śrījñāna) in der tibetische Überlieferung.* Asiatische Forschungen 59. Wiesbaden: Otto Harrasowitz, 1978.

EMMERICK, Ronald Eric. "A chapter from the *Rgyud-bzī*." *Asia major* 19.2:141-62, 1975.

EMMERICK, Ronald Eric. *The Siddhasāra of Ravigupta.* Verzeichnis der orientalischen Handschriften in Deutschland Supplementband 23. Wiesbaden: Franz Steiner Verlag, 1980-82.

FILLIOZAT, Jean. *Yogaśataka: texte médicale attribué à Nāgārjuna.* Publications de l'Institut Français d'Indologie 62. Pondichery: Institut Français d'Indologie, 1979.

HAHN, Michael. *Candragomins Lokānandanāṭaka. Nach dem tibetischen Tanjur herausgegeben und übersetzt. Ein Beitrag zur indischen klassischen Schauspielidichtung.* Asiatische Forschungen 39. Wiesbaden: Otto Harrassowitz, 1974.

HAHN, Michael. *Jñānaśrimitras Vṛttamālāstuti. Eine Beispielsammlung zur altindischen Metrik.* Asiatische Forschungen 33. Wiesbaden: Otto Harrassowitz, 1971.

HAHN, Michael. *Nāgārjuna's Ratnāvalī.* Indica et Tibetica 1. Bonn: Indica et Tibetica Verlag, 1982.

HAHN, Michael. "Ratnākaraśānti's autocommentary on his Chandoratnākara." In Helmut Eimer, ed. *Vicitrakusumāñjali. Volume presented to Richard Othon Meisezahl on the occasion of his eightieth birthday*, 77-100. Indica et Tibetica 11. Bonn: Indica et Tibetica Verlag, 1986.

HAMM, Frank-Richard. *Rab tu 'byuñ ba'i gži. Die tibetische Übersetzung des Pravrajyāvastu in Vinaya des Mūlasarvāstivādins.* Helmut Eimer, ed. Asiatische Forschungen 82. Wiesbaden: Otto Harrassowitz, 1983.

HATTORI Masaaki. *Dignāga on perception: being the pratyakṣapariccheda of Dignāga's Pramāṇasamuccaya from the Sanskrit fragments and the Tibetan*

versions. Harvard Oriental Series 47. Cambridge: Harvard University Press, 1968.

JASTRAM, Judy Ann. *Three chapters from the Gaṇḍavyūha sūtra: a critical edition of the Sanskrit and Tibetan texts of the youth Sudhana's visits to the bhiksus Meghaśrī, Sāgaramegha, and Supratīṣṭhita*. Dissertation Abstracts International 37(01):0321, University Microfilms ADG76-15237. Ph.D. dissertation, University of California—Berkeley, 1975.

LAMOTTE, Étienne. *Samdhinirmocana sūtra. L'explication des mystères*. Paris: Adrien Maisonneuve, 1935.

LAMOTTE, Étienne. *La somme du grand véhicule (Mahāyānasamgraha)*. Publications de l'Institut Orientaliste de Louvain 8. Louvain: Université de Louvain, 1973.

LAUFER, Berthold. *Dokumente der indischen Kunst. Erstes Heft. Malerei. Das Cītralakṣaṇa*. Leipzig: Otto Harrassowitz, 1913. Translated as *An early document of Indian art: the "Cītralakṣaṇa of Nagnajit."* B.N. Goswamy and A.L. Dahmen-Dallapiccola, trans. New Delhi: Manohar, 1976.

LÉVY, Sylvain. *Mahākarmavibhaṅga (La grande classification des actes) et Karmavibhaṅgopadeśa (Discussion sur le mahā karmavibhaṅga)*. Paris: Librairie Ernst Leroux, 1932.

LIN LI-kouang. *Dharma-samuccaya. Compendium de la loi. Récueil de stances extraites du Saddharma-smṛty-upasthāna-sūtra par Avalokitasimha*. Paris: Adrien-Maisonneuve, Vol. 1, 1946; Vol. 2, 1969; Vol. 3, 1973.

LINDTNER, Christian. "Cadrakīrti's Pañcaskandhaprakaraṇa." *Acta Orientalia* 40:87-145, 1979.

LINDTNER, Christian. "Narakoddharastava." *Acta Orientalia* 40:146-55, 1979.

MAY, Jacques. *Candrakīrti. Prasannapadā madhyamakavṛtti*. Collection Jean Przyluski 2. Paris: Adrien-Maisonneuve, 1959.

NOBEL, Johannes. *Suvṛṇṇaprabhāsottamasūtra: das Goldglanzsutra*. Leiden: E.J. Brill, 1950.

PANDEY, Jagadishwar. *Ratnākaraśānti's Chandoratnākara*. Rāhula Collection Series 2. Patna: Bihar Research Society, 1988.

PATEI, Prabhubhai Bhikhabhai. *Cittavisuddhiprakaraṇa of Āryadeva. Sanskrit and Tibetan texts*. Santiniketan: Visva-Bharati Research Publications, 1949.

PATHAK, Sunitikumar. *Cāṇakyarājanūśāstram (a Tibetan text with Sanskrit*

- parallels*). Santiniketan: Visva-Bharati Research Publications, 1959.
- PATHAK, Sunitikumar. *Nūtiśāstra of Masurākṣa*. Santiniketan: Visva-Bharati Research Publications, 1961.
- POUSSIN, Lous de la Vallée. *Tibetan translation of the Nyāyabindu of Dharmakīrti with the commentary of Vinūtadeva*. Bibliotheca Indica 171. Calcutta: The Asiatic Society, 1908-13; Calcutta: The Asiatic Society, 1984.
- SASTRI, N. Aiyaswami. *Ārya Śālistamba sūtra, Pratītyasamutpādavibhanga nirdeśasūtra, and Pratītyasamutpādagāthā sūtra*. The Adyar Library Series 76. Adyar: Adyar Library, 1950.
- SASTRI, N. Aiyaswami. *Bhavasañkrānti sūtra and Nāgārjuna's Bhavasañkrānti sūtra with the commentary of Maitreyanātha*. Adyar: Adyar Library, 1938.
- ŠČERBATSKOJ, Fedor Ippolitovič. *Nyāyabindu, buddhijskij učebnik logiki, sočinenie Darmakīrti, i tolkovanie na nego, Nyāyabinduškā, sočinenie Darmottarbi*. Tibetskij perevod. Bibliotheca Buddhica 8. St. Petersburg, 1904.
- ŠČERBATSKOJ, Fedor Ippolitovič. *Tibetskij perevod Abhidharmakoçakārikāh i Abhidharmakoçabhāṣyam sočinenij Vasubandhu*. Bibliotheca Buddhica 20. Leningrad, 1930; Osnabrück: Biblio Verlag, 1970.
- ŠČERBATSKOJ, Fedor Ippolitovič. *Tibetskij perevod socinenij Santānāntarasiddhi Dharmakīrti i Santānāntarasiddhiūkā Vinūtadeva vmesie s tibetskym tolkkvaniem, sostavленным Agvan Dandarilharamboi*. Bibliotheca Buddhica 19. St. Petersburg, 1916.
- ŠČERBATSKOJ, Fedor Ippolitovič and Evgenij Evgenievič Obermiller. *Abhisamayālankāra-prajñāpāramitā-upadeśa-sāstra*. Bibliotheca Buddhica 23. Leningrad, 1929.
- SKORUPSKI, Tadeusz. *The Sarvadurgaiipariśodhana tantra. Elimination of all evil destinies. Sanskrit and Tibetan texts*. Delhi: Motilal Banarsiādass, 1983.
- SNELLGROVE, David L. *The Hevajra Tantra. A critical study*. London Oriental Series 6. London: Oxford University Press, 1959.
- SORENSEN, Per K. *Candrakīrtis Trīśāraṇasaptati. The septuagint of the three refuges*. Wiener Studien zur Tibetologie und Buddhismuskunde 16. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1986.
- STARL-HOLSTEIN, Baron A. von. *The Kāgyapaparivarta. A Mahāyānasūtra of the Ratnakūṭa class*. Peking, 1925; Tokyo: Meicho-fukyū-kai, 1977.
- STEINKELLNER, Ernst. *Dharmakīrtis Paralokasiddhi. Nachweis der Wiedergeburt*.

Zugleich eine Eiderlegung materialistischer Thesen zur Natur der Geistigkeit. Wiener Studien zur Tibetologie und Buddhismuskunde 15. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1986.

TOLA, Fernando and Carmen Dragonetti. "Śūnyatāsapta: the seventy kārikās on Voidness (according to the Svavṛtti) of Nāgārjuna." *Journal of Indian Philosophy* 15:1-55, 1987.

TSUDA Shinichi. *The Saṃvarodaya-Tantra. Selected chapters*. Tokyo: The Hokusaido Press, 1974.

VIDYĀBHŪṢĀṄA, Satis Chandra. *Amarakoṣa and its Tibetan translation, 'Chi med mdzod. A metrical dictionary of the Sanskrit language by Amarasiṅha with its Tibetan translation made by Mahāpaṇḍita Kīrticandra and Yar-luñs Lo-tsā-ba Grags-pa-rgyal-mtshan*. Bibliotheca Indica 204. Calcutta: Asiatic Society of Bengal, 1911-12; Gangtok: Sherab Gyaltsen Lama, 1984.

VOGEL, Claus. *The teachings of the six heretics according to the Pravrajyāvastu of the Tibetan Mūlasarvāstivāda Vinaya*. Abhandlungen für die Kunde des Morgenlandes XXXIX.4. Wiesbaden: Kommissionsverlag Franz Steiner, 1970.

VOGEL, Claus. *Vāgbhaṭa's Āṣṭāṅgahṛdayasamhitā. The first five chapters of its Tibetan version*. Abhandlungen für die Kunde des Morgenlandes XXXVII. 2. Wiesbaden: Deutsche Morgenländische Gesellschaft, 1965.

WELLER, Friedrich. *Brahmajālasūtra. Tibetischer und mongolischer Text*. Leipzig: Kommissionsverlag Otto Harrassowitz, 1934.

ZIMMERMANN, Heinz. *Die Subhāsiṭa-ratna-karaṇḍaka-kathā (dem Āryaśūra zugeschrieben) und ihre tibetische Übersetzung. Ein Vergleich zur Darlegung der Irrtumsrisiken bei der Auswertung tibetischer Übersetzungen*. Freiburger Beiträge zur Indologie 8. Wiesbaden: Otto Harrassowitz, 1975.

10. WRITING

BACOT, Jacques. *L'écriture cursive tibétaine*. Paris, 1912.

BALLARD, William L. "In re classical Tibetan orthography. 'Fools rush in where angels fear to tread.'" Paper presented at the eleventh annual International Conference on Sino-Tibetan Languages and Linguistics, University of Arizona, Tucson, 1978.

DAS, Sarat Chandra. "The sacred and ornamental characters of Tibet." *Journal of the Asiatic Society of Bengal* 57:41-8, 1888.

- FILLIOZAT, Jean. "Sur l'origine de l'écriture tibétaine." *Journal Asiatique* 231: 283, 1939.
- FRANCKE, August Hermann. "The Tibetan alphabet." *Epigraphia Indica* 11: 266-72, 1911-12.
- HUNTER, David. *Papermaking. The history and technique of an ancient craft*, 59, 111-114, 170, 180, 240. New York: Dover Publications, Inc., 1947.
- LAUFER, Berthold. "Origin of Tibetan writing." *Journal of the American Oriental Society* 38:34-46, 1917.
- MILLER, Roy Andrew. "Phonemic theory and orthographic practice in Old Tibetan." *Journal of the Tibetan Society* 1:45-62, 1981.
- MILLER, Roy Andrew. *The Tibetan writing system*. American Council of Learned Societies Program in Oriental Languages Series B, Aid 6. Washington DC: American Council of Learned Societies, 1956.
- NAKANO Miyoko. "The Rgya-dkar-nag rgya-ser ka-smi-ra bal bod hor-gyi yi-ge dañ dpe-ris rnam-grañs mañ-ba and some remarks on the 'Phags-pa script.'" In Perala Ratnam, ed. *Studies in Indo-Asian art and culture. Commemorative volume on the 71st birthday of Acharya Raghu Vira*, III.1-18. Śata-Piṭaka series, Indo-Asian Literatures 209. Delhi: International Academy of Indian Culture, 1973.
- NARKYID, Ngawangthondup. "The origin of the Tibetan script." In Ernest Steinkellner and Helmut Tauscher, eds. *Contributions on Tibetan Language, History, and Culture. Proceedings of the Csoma de Körös Symposium held at Velm-Vienna, Austria, 13-19 September 1981*, I.207-20. Wiener Studien zur Tibetologie und Buddhismuskunde 10. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1983.
- SAMPSON, Geoffrey. *Writing systems*. Stanford: Stanford University Press, 1985.
- SCHARLIPP, Wolfgang-Ekkehard. *Einführung in die tibetische Schrift*. Hamburg: Buske, 1984.
- STEVENS, John. *Sacred calligraphy of the East*, 71-96. Boulder: Shambhala Publications, Inc., 1981.
- URAY, Géza. "On the Tibetan letters *ba* and *wa*—contribution to the origin and history of the Tibetan alphabet." *Acta Orientalia Hungaricae* 5:101-22, 1955.

11. LANGUAGE CLASSIFICATIONS

- BODMAN, Nicolas C. "On the place of Lepcha in Sino-Tibetan—a lexical comparison." *Linguistics of the Tibeto-Burman Area* 11.1:1-26, 1988.
- FORREST, R.A.D. "The linguistic position of Rong (Lepcha)." *Journal of the American Oriental Society* 82:331-5, 1962.
- HALE, Austin. *Research on Tibeto-Burman languages*, 10-35. Trends in Linguistics, State of the Art Report 14. New York: Mouton, 1982.
- MATISOFF, James M. "The languages and dialects of Tibeto-Burman: an alphabetic/genetic listing, with some prefatory remarks on etnonymic and glossonymic complications." In John McCoy and Timothy Light, eds. *Contributions to Sino-Tibetan studies*. Cornell Linguistics Contributions 5. Leiden: E.J. Brill, 1985.
- MICHAILOVSKY, Boyd. "Phonological typology of Nepal languages." Paper presented at the fifteenth annual International Conference on Sino-Tibetan Languages and Linguistics, Peking, 1982.
- NISHI Yoshio. "Classification of some Tibetan dialects of Nepal." Paper presented at the first annual conference of the Linguistic Society of Nepal, Tribhuvan University, Kirtipur, 1980.
- RUHLEN, Merritt. *A guide to the world's languages. Vol. I: classification*, 141-47, 331-33. Stanford: Stanford University Press, 1987.
- SHAFER, Robert. "Classification of the Sino-Tibetan languages." *Word* 2:94-111, 1955.
- SHAFER, Robert. "Classification of some languages of the Himalayas." *Journal of the Bihar Research Society* 34:192-214, 1950.
- SHAFER, Robert. "The linguistic position of Dwags." *Oriens* 7:348-56, 1954.
- THURGOOD, Graham. "Pronouns, pronominalization, and the subgrouping of Tibeto-Burman." In Graham Thurgood, James A. Matisoff, and David Bradley, eds. *Linguistics of the Sino-Tibetan area: the state of the art. Papers presented to Paul K. Benedict for his 71st birthday*, 376-400. Pacific Linguistics Series C, 87. Canberra: Australian National University, 1985.
- VOEGELIN, C.F. and F.M. Voegelin. *Classification and index of the world's languages*. New York: Elsevier, 1977.

12. RELATED LANGUAGES

- CHANG Kun. "The phonology of the Gyarong dialect." *Academia Sinica: Bulletin of the Institute of History and Philology* 38:251-75, 1968.
- CHANG Kun and Betty Shefts Chang. "Gyarong historical phonology." *Academia Sinica: Bulletin of the Institute of History and Philology* 46:391-524, 1975.
- DREIM, George van. "An exploration of Proto-Kiranti verbal morphology." Paper presented at the twenty-first annual International Conference on Sino-Tibetan Languages and Linguistics, University of Lund, 1988.
- DRIEM, George van. "Le Proto-Kiranti revisité: morphologie verbale de Lohorung." Paper presented at the twenty-second annual International Conference on Sino-Tibetan Languages and Linguistics, University of Hawaii, Honolulu, 1989.
- EBERT, Karen H. "More evidence for the relationship Kiranti-Rung." Paper presented at the twenty-first annual International Conference on Sino-Tibetan Languages and Linguistics, University of Lund, 1988.
- FORREST, R.A.D. *The Chinese language*. London, 1965.
- GLOVER, Warren W. *Gurung phonemic summary*. Tibeto-Burman phonemic summaries 1. Kirtipur: Summer Institute of Linguistics, 1969.
- GLOVER, Warren W. *Semantic and grammatical structures in Gurung (Nepal)*. Summer Institute of Linguistics publications in linguistics and related fields 49. Norman, OK: Summer Institute of Linguistics, 1974.
- HALE, Austin. *Research on Tibeto-Burman languages*. Trends in Linguistics, State of the Art Report 14. New York: Mouton & Co., 1982.
- HALE, Austin, Maria Hari, and Burkhard Schöttelndreyer. *Comparative vocabularies of languages of Nepal (Swadesh 100-word list)*. Kirtipur: Summer Institute of Linguistics and Tribhuvan University, 1972.
- HALE, Austin and Kenneth L. Pike. *Tone systems of Tibeto-Burman languages of Nepal*. Occasional papers of the Wolfenden Society on Tibeto-Burman Linguistics 3. Urbana: University of Illinois, 1970.
- HALE, Austin and David E. Watters, eds. *Clause, sentence, and discourse patterns in selected languages of Nepal, Parts I-IV*. Summer Institute of Linguistics Publications in Linguistics and Related Fields 40. Kathmandu: Summer Institute of Linguistics and Tribhuvan University, 1973.

HOFFMAN, Helmut. "Several Žañ-žuñ etymologies." *Oriens extremus* 19:193-201, 1972.

HOFFMAN, Helmut. "Žañ-žuñ, the holy language of the Tibetan Bonpo." *Zeitschrift der deutschen morgenländischen Gesellschaft* 117:376-81, 1967.

HUMMEL, Siegbert. "Materialen zu einem Wörterbuch der Žañ-žuñ-Sprache." *Monumenta Serica* 31:488-520, 1974-75; 32:320-36, 1976.

HUMMEL, Siegbert. "Der Ursprung der Sprache von Zhang-zhung." *Journal of the Tibet Society* 6:3-16, 1986.

KARLGREN, Bernhard. *Grammata Serica Recensa*. Stockholm: Museum of Far Eastern Antiquities, 1964.

MANSIER, Patrick. "Le lexique rgyal-roñ et le vocabulaire archaïque tibétain (analyse d'un cas d'allofamie en tibéto-birman)." Paper presented at the fifteenth annual International Conference on Sino-Tibetan Languages and Linguistics, Peking, 1982.

NAGANO Yasuhiko. "A historical study of rGyarong initials and prefixes." *Linguistics of the Tibeto-Burman Area* 4.2:44-68, 1979.

NAGANO Yasuhiko. "A historical study of rGyarong rhymes." *Linguistics of the Tibeto-Burman Area* 5.1:37-47, 1979.

NAGANO Yasuhiko. *A historical study of the rGyarong verb system*. Tokyo: Seishido, 1984.

NAGANO Yasuhiko. "Preliminary remarks on rGyarong dialectology." Paper presented at the eleventh annual International Conference on Sino-Tibetan Languages and Linguistics, University of Arizona, Tucson, 1978.

NISHIDA Tatsuo. "On the linguistic position of the Kham language in West Nepal—some provisional observations." *Onsei Kagaku Kenkyū (Studia Phonologica)* 21:1-9, 1987.

NISHIDA Tatsuo. "The Hsihsia, Lolo, and Moso languages." In Graham Thurgood, James A. Matisoff, and David Bradley, eds. *Linguistics of the Sino-Tibetan area: the state of the art. Papers presented to Paul K. Benedict for his 71st birthday*, 230-41. Pacific Linguistics Series C, 87. Canberra: Australian National University, 1985.

NISHIDA Tatsuo. "Hsihsia, Tusu and Lolo-Burmese languages." *Onsei Kagaku Kenkyū (Studia Phonologica)* 10:1-15, 1976.

PITTMAN, Richard S. and Jessie R. Glover. "Proto-Tamang-Gurung-Thakali."

- In Austin Hale and Kenneth L. Pike, eds. *Tone systems of Tibeto-Burman languages of Nepal* 2:9-22. Occasional papers of the Wolfenden Society on Tibeto-Burman Linguistics 3. Urbana: University of Illinois, 1970.
- STEIN, Rolf Alfred. *Les tribus anciennes des marches sino-tibétains. Légendes, classifications et histoire*. Bibliothèque de l'Institut des Hautes Études Chinoises 15. Paris: Presses Universitaires de France, 1961.
- THOMAS, Frederick William. *Nam, an ancient language of the Sino-Tibetan borderland*. Publications of the Philological Society 14. London: Oxford University Press, 1948.
- THURGOOD, Graham. "The 'Rung' languages: notes on their proto-morpho-syntax and subgrouping." *Acta Orientalia* 46:79-99, 1988.
- WATTERS, David E. "Emergent word tone in Kham: a Tibeto-Burman halfway house." *Linguistics of the Tibeto-Burman Area* 8.2:36-54, 1985.
- WATTERS, David E. "The evolution of a Tibeto-Burman pronominal verb morphology: a case-study from Kham (Nepal)." *Linguistics of the Tibeto-Burman Area* 2.1:45-80, 1975.

13. COMPARISONS AND RECONSTRUCTIONS

- BAUMAN, James John. "An historical perspective on ergativity in Tibeto-Burman." In Frans Plank, ed. *Ergativity: towards a theory of grammatical relations*, 419-33. New York: Academic Press, 1979.
- BAUMAN, James John. "Pronominal verb morphology in Tibeto-Burman." *Linguistics of the Tibeto-Burman Area* 1.1:108-55, 1974.
- BAUMAN, James John. "Pronominal roots in Tibeto-Burman." Paper presented at the eighth annual International Conference on Sino-Tibetan Languages and Linguistics, University of California, Berkeley, 1975.
- BENEDICT, Paul K. *Sino-Tibetan: a conspectus*. Princeton-Cambridge studies in Chinese linguistics 2. James A. Matisoff, contributing editor. New York: Cambridge University Press, 1972.
- BENEDICT, Paul K. "Tibeto-Burman tones with a note on teleo-reconstruction." *Acta Orientalia* 35:127-38, 1973.
- BODMAN, Nicolas C. "Evidence for l and r medials in Old Chinese and associated problems." In Graham Thurgood, James A. Matisoff, and David

Bradley, eds. *Linguistics of the Sino-Tibetan area: the state of the art. Papers presented to Paul K. Benedict for his 71st birthday*, 146-79. Pacific Linguistics Series C, 87. Canberra: Australian National University, 1985.

BODMAN, Nicolas C. "Final labials in Tibetan and Chinese." Paper presented at the second annual International Conference on Sino-Tibetan Languages and Linguistics, Columbia University, 1969.

BODMAN, Nicolas C. "Old Chinese s-clusters, some dialect alternations, and traces of the Sino-Tibetan s-causative." Paper presented at the fifth annual International Conference on Sino-Tibetan Languages and Linguistics, University of Michigan, Ann Arbor, 1972.

BODMAN, Nicolas C. "Proto-Chinese and Sino-Tibetan: data towards establishing the nature of the relationship." In Frans van Coetsam and Linda R. Waugh, eds. *Contributions to historical linguistics: issues and materials*, 34-199. Leiden: E.J. Brill, 1980.

BODMAN, Nicholas C. "Some Chinese reflexes of Sino-Tibetan s-clusters." *Journal of Chinese Linguistics* 1:383-96, 1973.

BODMAN, Nicolas C. "Some phonological correspondences between Chinese and Tibetan." Paper presented at the fourth annual International Conference on Sino-Tibetan Languages and Linguistics, Indiana University, 1971.

BRADLEY, David. *Proto-Loloish*. Scandinavian Institute of Asian Studies monograph series 39. London: Curzon Press, 1979.

BURLING, Robbins. *Proto-Lolo-Burmese*. Indiana University Research Center in Anthropology, Folklore and Linguistics publication no. 43. The Hague: Mouton & Co., 1967.

CHANG, Betty Shefts and Chang Kun. "The prenasalized stop initials of Miao-Yao, Tibeto-Burman and Chinese: a result of diffusion or evidence of a genetic relationship?" *Academia Sinica: Bulletin of the Institute of History and Philology* 47:467-502, 1976; also in Mantaro J. Hashimoto, ed. *Genetic relationship, diffusion and typological similarities of East and Southeast Asian languages*, 315-58. Papers of the first Japan-U.S. joint seminar on East and Southeast Asian linguistics. Tokyo: Japan Society for the Promotion of Science, 1976.

CHANG Kun. "Sino-Tibetan 'iron': *qhleks." *Journal of the American Oriental Society* 92:436-46, 1972.

CHANG Kun. "The Tibetan role in Sino-Tibetan comparative linguistics." *Aca-*

- demia Sinica: Bulletin of the Institute of History and Philology* 48:93-108, 1977.
- DeLANCEY, Scott. "The analysis-synthesis-lexis cycle in Tibeto-Burman: a case study in motivated change." In John Haiman, ed. *Iconicity in Syntax. Proceedings of a symposium on iconicity in syntax, Stanford*, 367-89. Typological Studies in Language 6. Amsterdam: John Benjamins, 1985.
- DeLANCEY, Scott. "The category of direction in Tibeto-Burman." *Linguistics of the Tibeto-Burman Area* 6.1:83-101, 1981.
- DeLANCEY, Scott. "Etymological notes on Tibeto-Burman case particles." *Linguistics of the Tibeto-Burman Area* 8.1:59-77, 1983.
- DeLANCEY, Scott. "From ergative to accusative in Tibeto-Burman." Paper presented at the tenth annual International Conference on Sino-Tibetan Languages and Linguistics, Georgetown University, 1977.
- DeLANCEY, Scott. "Mood particles in Sino-Tibetan." Paper presented at the eleventh annual International Conference on Sino-Tibetan Languages and Linguistics, University of Arizona, Tucson, 1978.
- DeLANCEY, Scott. "Tangut and Tibeto-Burman morphology." *Linguistics of the Tibeto-Burman Area* 7.2:100-8, 1983.
- FORREST, R.A.D. "On certain Tibetan initial consonant groups." *Wennti* 4:1-16, 1942.
- FORREST, R.A.D. "Towards common Tibeto-Burman." *Wennti* 10:1-18, 1956.
- GONG, Hwang-cherng. "A comparative study of the Chinese, Tibetan, and Burmese vowel system." *Academia Sinica: Bulletin of the Institute of History and Philology* 51:455-90, 1980.
- KARLGREN, Bernhard. "Tibetan and Chinese." *T'oung Pao* 28:25-70, 1931.
- LAUFER, Berthold. "The prefix *a-* in the Indo-Chinese languages." *Journal of the Royal Asiatic Society* (1915):757-80. 1915.
- LUCE, Gordon H. *A comparative wordlist of Old Burmese, Chinese, and Tibetan*. Eugénie J.A. Henderson, ed. London: School of Oriental and African Studies, 1981.
- MATISOFF, James A. "Stars, moon, and spirits: bright beings of the night in Sino-Tibetan." *Gengō Kenkyū (Journal of the Linguistic Society of Japan)* 77:1-45, 1980.
- MAZAUDON, Martine. "Tibeto-Burman tonogenetics." *Linguistics of the Tibeto-*

Burman Area 3.2:1-123, 1977.

MEI, Tsu-lin. "Some examples of prenasals and *s-nasals in Sino-Tibetan." In Graham Thurgood, James A. Matisoff, and David Bradley, eds. *Linguistics of the Sino-Tibetan area: the state of the art. Papers presented to Paul K. Benedict for his 71st birthay*, 334-43. Pacific Linguistics Series C, 87. Canberra: Australian National University, 1985.

MICHAILOVSKY, Boyd. "Tibeto-Burman dental suffixes: evidence from Limbu (Nepal)." In Graham Thurgood, James A. Matisoff, and David Bradley, eds. *Linguistics of the Sino-Tibetan area: the state of the art. Papers presented to Paul K. Benedict for his 71st birthay*, 363-75. Pacific Linguistics Series C, 87. Canberra: Australian National University, 1985.

MILLER, Roy Andrew. "The significance for comparative grammar of some ablauts in the Tibetan number-system." *T'oung Pao* 43:287-96, 1955.

MILLER, Roy Andrew. "The Tibeto-Burman ablaut system." *Transactions of the International Congress of Orientalists in Japan* 1:29-56, 1956.

MILLER, Roy Andrew. "The Tibeto-Burman infix system." *Journal of the American Oriental Society* 78:193-204. 1958.

NISHIDA Tatsuo. "Some problems in the comparison of Tibetan, Burmese, and Kachin languages." *Onsei Kagaku Kenkyū (Studia Phonologica)* 11:1-24, 1977.

NISHIDA Tatsuo. "Some problems of morpheme stock in Sino-Tibetan: a preliminary observation in genetic relationship." In Mantaro J. Hashimoto, ed. *Genetic relationship, diffusion and typological similarities of East and Southeast Asian languages*, 30-38. Papers of the first Japan-U.S. joint seminar on East and Southeast Asian linguistics. Tokyo: Japan Society for the Promotion of Science, 1976.

PULLEYBLANK, Edwin G. "Tonogenesis as an index of areal relationships in East Asia." *Linguistics of the Tibeto-Burman Area* 9.1:65-82, 1986.

SEDLÁČEK, Kamil. "Existierte ein Lautgesetz in zusammengesetzten Anlauten des Proto-Sino-Tibetischen?" *Central Asiatic Journal* 7:270-311, 1962.

SEDLÁČEK, Kamil. "The law of phonetic change in initial clusters in common Sino-Tibetan." *Monumenta Serica* 26:6-34, 1967.

SEDLÁČEK, Kamil. "On some Tibetan s-, d- initial clusters and their metathetical forms in Sino-Tibetan lexemes." *Orbis* 13:556-67, 1964.

- SEDLÁČEK, Kamil. "Zum Instrumentalsuffix *Hnang* in Barmanischen und *Dang* im Tibetischen." *Zeitschrift der deutschen morgenländischen Gesellschaft* 112: 159-69, 1962.
- SHAFER, Robert. "The vocalism of Sino-Tibetan." *Journal of the American Oriental Society* 60:302-37, 1940; 61:18-31, 1941.
- SHAFER, Robert. "Problems in Sino-Tibetan phonetics." *Journal of the American Oriental Society* 64:137-43.
- SHAFER, Robert. "Prefixes in Tibeto-Burmic." *Harvard Journal of Asiatic Studies* 9:45-50, 1945.
- SHAFER, Robert. "The initials of Sino-Tibetan." *Journal of the American Oriental Society* 70:96-103, 1950.
- SHAFER, Robert. "Newari and Sino-Tibetan." *Studia Linguistica* 6:92-109, 1952.
- SHAFER, Robert. *Introduction to Sino-Tibetan*. Wiesbaden: Otto Harrassowitz, 1966-73.
- SIMON, Walter. "Tibetisch-chinesische Wortgleichungen. Ein Versuch." *Mitteilungen des Seminars für orientalische Sprachen an der königlichen Friedrich-Wilhelms-Universität zu Berlin* 32:157-228, 1929.
- SPRIGG, R.K. "Prosodic analysis and phonological formulae in Tibeto-Burman linguistic comparison." In Harry L. Shorto, ed. *Linguistic comparison in South-east Asia and the Pacific*, 78-108. Collected papers in Oriental and African studies. London: School of Oriental and African Studies, 1963.
- SUN Hongkai. "On consonant clusters in Tibeto-Burman." *Linguistics of the Tibeto-Burman Area* 9.1:1-21, 1986.
- THURGOOD, Graham. "Lisu and Proto-Lolo-Burmese." *Acta Orientalia* 38:147-207, 1977.
- WEIDERT, Alfons K. *Tibeto-Burman tonology*. Current Issues in Linguistic Theory 54. Amsterdam: John Benjamins, 1987.
- WOLFENDEN, Stuart. "Concerning the origins of Tibetan *briād* and Chinese *pwāt*." *T'oung Pao* 34:165-73, 1939.
- WOLFENDEN, Stuart N. *Outlines of Tibeto-Burman linguistic morphology, with special reference to the prefixes, infixes, and suffixes of classical Tibetan, and the languages of the Kachin, Bodo, Naga, Kuki Chin, and Burma groups*. Royal Asiatic Society Prize Publication 12. London: Royal Asiatic Society, 1929.

YANG, Paul Fu-mien. "Proto-Chinese *sk- and Tibeto-Burman equivalents." Paper presented at the eleventh annual International Conference on Sino-Tibetan Languages and Linguistics, University of Arizona, Tucson, 1978.

YANG, Paul Fu-mien. "Proto-Chinese *s-kl- and Tibeto-Burman equivalents." Paper presented at the tenth annual International Conference on Sino-Tibetan Languages and Linguistics, Georgetown University, 1977.

14. WORD FAMILIES

CONRADY, August. *Ein indochinesische Causativ-Denominativ-Bildung und ihr Zusammenhang mit den Tonaccenten. Ein Beitrag zur vergleichenden Grammatik der Indochinesischen Sprachen, insonderheit des Tibetischen, Barmanischen, Siamesischen und Chinesischen*. Leipzig: Otto Harrassowitz, 1896.

KARLGREN, Bernhard. "Word families in Chinese." *Bulletin of the Museum of Far Eastern Antiquities* 5:5-120, 1933.

MATISOFF, James A. "Out on a limb: arm, hand, and wing in Sino-Tibetan." In Graham Thurgood, James A. Matisoff, and David Bradley, eds. *Linguistics of the Sino-Tibetan area: the state of the art. Papers presented to Paul K. Benedict for his 71st birthday*, 421-50. Pacific Linguistics Series C, 87. Canberra: Australian National University, 1985.

MATISOFF, James A. "Universal semantics and allofamic identification: two case studies—'straight/flat/full' and 'property/livestock/talent.'" Paper presented at the nineteenth annual International Conference on Sino-Tibetan Languages and Linguistics, Ohio State University, Columbus, 1986.

MATISOFF, James A. *Variational semantics in Tibeto-Burman: the "organic" approach to linguistic comparison*. Occasional papers of the Wolfenden Society on Tibeto-Burman Linguistics 6. Philadelphia: Institute for the Study of Human Issues, 1978.

PULLEYBLANK, Edwin G. "Some new hypotheses concerning word families in Chinese." *Journal of Chinese Linguistics* 1:111-25, 1973.

SIMON, Walter. "The range of sound alternations in Tibetan word families." *Asia Major* 1:3-15, 1949.

WOLFENDEN, Stuart. "On certain alternations between dental finals in Tibetan and Chinese." *Journal of the Royal Asiatic Society* (1936):401-16, 1936.

WOLFENDEN, Stuart. "Concerning the variation of final consonants in the

word families of Tibetan, Kachin, and Chinese." *Journal of the Royal Asiatic Society* (1937):625-55, 1937.

15. NEW TIBETAN DIALECTS

AGHA, Asif. *Lexical structure and grammatical categories in Lhasa Tibetan*. Ph.D. dissertation, University of Chicago, 1990.

CHANG, Betty Shefts. "The Tibetan causative: phonology." *Academia Sinica: Bulletin of the Institute of History and Philology* 42:623-774, 1971.

CHANG, Betty Shefts and Chang Kun. "The certainty hierarchy among Spoken Tibetan verbs of being." *Academia Sinica: Bulletin of the Institute of History and Philology* 55:603-34, 1984.

CHANG, Betty Shefts and Chang Kun. "Ergativity in spoken Tibetan." *Academia Sinica: Bulletin of the Institute of History and Philology* 51:15-32, 1980.

CHANG, Betty Shefts and Chang Kun. "Perfective and imperfective in spoken Tibetan." *Academia Sinica: Bulletin of the Institute of History and Philology* 52: 303-21, 1981.

CHANG, Betty Shefts and Chang Kun. "Tense and aspect in spoken Tibetan." In Ernest Steinkellner and Helmut Tauscher, eds. *Contributions on Tibetan Language, History, and Culture. Proceedings of the Csoma de Körös Symposium held at Velm-Vienna, Austria, 13-19 September 1981*, I.329-37. Wiener Studien zur Tibetologie und Buddhismuskunde 10. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1983.

CHANG Kun and Betty Shefts Chang. *A manual of spoken Tibetan (Lhasa dialect)*. Seattle: University of Washington Press, 1964.

CHANG Kun and Betty Shefts Chang. "A morphophonemic problem in the spoken Tibetan of Lhasa." *Journal of the American Oriental Society* 85:34-9, 1965.

CHANG Kun and Betty Shefts Chang. "Spoken Tibetan morphophonemics: *p.*" *Language* 43:512-25, 1967.

CHANG Kun and Betty Shefts Chang. "The spoken Tibetan verb *k.y.*" In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Körös*, I.131-42. Budapest: Akadémiai Kiadó, 1984.

CIVERA, Marco Bernard. *The distinctive phonology of Lhasa Central Tibetan: results of a field trip to study the Himalayas as an ethno-linguistic area.* Dissertation Abstracts International 32(04):2076, University Microfilms ADG71-25225. Ph.D. dissertation, Georgetown University, 1971.

DARROCH, Vivian. "Verbal experience in Ladakh." *Resources for Feminist Research* 13.3:37-8, 1984.

DAWSON, Willa. *Tibetan phonology.* Dissertation Abstracts International 41(11):4699, University Microfilms ADG81-09722. Ph.D. dissertation, University of Washington, 1980.

DAWSON, Willa. "Tibetan tones: evidence for two-tiered representation." Paper presented at the fourteenth annual International Conference on Sino-Tibetan Languages and Linguistics, University of Florida, Gainesville, 1981. In Chauncey Chu, Weldon South Coblin, and Feng-fu Tsao, eds. *Papers from the fourteenth annual International Conference on Sino-Tibetan Languages and Linguistics.* Taipei: Student Book Publishing Co., 1983.

DAWSON, Willa. "The vowel feature 'constricted' in Tibetan." In Suriya Ratanakul, David Thomas and Suwilai Premisirat, eds. *Southeast Asian linguistics studies presented to André-G. Haudricourt*, 158-77. Bangkok: Mahidol University, 1985.

DELANCEY, Scott. "Agentivity and syntax." In William H. Eilfort, Paul D. Kroeber, and Karen L. Peterson, eds. *Papers from the parasession on causatives and agentivity, twenty-first regional meeting, Chicago Linguistic Society*, 1-12. Chicago: Chicago Linguistic Society, 1985.

DELANCEY, Scott. "Categories of non-volitional actor in Lhasa Tibetan." In Arlene R. Zide, David Magier, and Eric Schiller, eds. *Proceedings of the conference on participant roles: South Asia and adjacent areas*, 58-70. Bloomington: Indiana University Linguistics Club, 1985.

DELANCEY, Scott. "Contour tones from lost syllables in Central Tibetan." *Linguistics of the Tibeto-Burman Area* 12.2:33-4, 1989.

DELANCEY, Scott. "Ergative case in modern Tibetan." Paper presented at the fourteenth annual International Conference on Sino-Tibetan Languages and Linguistics, University of Florida, Gainesville, 1981.

DELANCEY, Scott. "Evidentiality and volitionality in Tibetan." In Wallace Chafe and Johanna Nichols, eds. *Evidentiality: the linguistic coding of epistemology*, 203-13. Advances In Discourse Processes 20. Norwood, NJ: Ablex Publishing Corporation, 1986.

- DELANCEY, Scott. "Lhasa Tibetan: a case study in ergative typology." *Journal of Linguistic Research* 2.1:21-31, 1982.
- DELANCEY, Scott. "Modern Tibetan: a case study in linguistic typology." *Journal of Linguistic Research* 1.3:40-49, 1982.
- DELANCEY, Scott. "Tibetan evidentials and the semantics of causation." In *Proceedings of the eleventh annual meeting of the Berkeley Linguistics Society*, 65-72. Berkeley: Berkeley Linguistics Society, 1985.
- DELANCEY, Scott. "Transitivity and ergative case in Lhasa Tibetan." In Claudia Brugman, Monica Macauley, Amy Dahlstrom, Michele Emanatian, Birch Moonwoman, and Catherine O'Connor, eds. *Proceedings of the tenth annual meeting of the Berkeley Linguistics Society*, 131-40. Berkeley: Berkeley Linguistics Society, 1984.
- DELANCEY, Scott. "Versatile verbs in Lhasa Tibetan." Paper presented at the seventeenth annual International Conference on Sino-Tibetan Languages and Linguistics, University of Oregon, Eugene, 1984.
- DENWOOD, Philip. "Linguistic studies in Ladakhi." In Michael V. Aris and Aung San Suu Kyi, eds. *Tibetan studies in honour of Hugh Richardson: proceedings of the International Seminar on Tibetan Studies, Oxford*, 93-96. Westminster: Aris & Phillips, 1979; Atlantic Highlands, NJ: Humanities Press, 1981.
- GIVÓN, Talmy. "The drift away from ergativity: diachronic potential in Sherpa." *Folia Linguistica Historica* 1:41-60, 1980.
- GŌ Minoru, Aoki Bunkyo, Yamamoto Hajime, and Kitamura Hajime, eds. *An Eastern Tibetan dictionary and a study of the Eastern Tibetan language, with special reference to the initial consonants*. Okayama, 1954.
- GOLDSTEIN, Melvyn C. *Modern literary Tibetan*. Occasional papers of the Wolfenden Society on Tibeto-Burman Linguistics 5. Urbana: Center for Asian Studies, 1973.
- GOLDSTEIN, Melvyn C. *Tibetan-English dictionary of modern Tibetan*. Biblioteca Himalayaca II.9. Kathmandu: Ratna Pustak Bhandar, 1975.
- GOLDSTEIN, Melvyn C. and Nawang Nornang. *Modern spoken Tibetan: Lhasa dialect*. Seattle: University of Washington Press, 1970.
- HARI, Maria. *An investigation of the tones of Lhasa Tibetan*. Asia-Pacific series, language data 13. Dallas: Summer Institute of Linguistics, 1980.

HERMANNS, Matthias. "Tibetische Dialekte von Amdo." *Anthropos* 47:193-202, 1952.

KJELLIN, Olle. "How to explain the 'tones' in Tibetan." Paper presented at the eighth annual International Conference on Sino-Tibetan Languages and Linguistics, University of California, Berkeley, 1975.

KJELLIN, Olle. "Observations on consonant types and 'tone' in Tibetan." *Journal of Phonetics* 5:317-38, 1977.

KOSHAL, Sanyukta. *Conversational Ladakhi*. Delhi: Motilal Banarsi Dass, 1982.

KOSHAL, Sanyukta. "Honorific systems of the Ladakhi language." *Multilingua: Journal of Interlanguage Communication* 6.2:149-68, 1987.

KOSHAL, Sanyukta. *Ladakhi grammar*. Delhi: Motilal Banarsi Dass, 1979.

KOSHAL, Sanyukta. *Ladakhi phonetic reader*. Central Institute of Indian Languages Phonetic Reader Series 18. Mysore: Central Institute of Indian Languages, 1976.

LIU Feng-hsi. "Tones and tone sandhi in Eastern Tibetan." Paper presented at the seventeenth annual International Conference on Sino-Tibetan Languages and Linguistics, University of Oregon, Eugene, 1984.

MAZAUDON, Martine. "Dzongkha numerals." In Suriya Ratanakul, David Thomas and Suwilai Premisirat, eds. *Southeast Asian linguistics studies presented to André-G. Haudricourt*, 124-57. Bangkok: Mahidol University, 1985.

MAZAUDON, Martine and Boyd Michailovsky. "Syllabicity and suprasegmentals: the Dzongkha monosyllabic noun." Paper presented at the nineteenth annual International Conference on Sino-Tibetan Languages and Linguistics, Ohio State University, Columbus, 1986.

MAZAUDON, Martine and Boyd Michailovsky. "Lost syllables and tonal contour in Dzongkha." In David Bradley, Eugénie J.A. Henderson, and Martine Mazaudon, eds. *Prosodic analysis and Asian linguistics: to honor R.K. Spragg*, 115-36. Pacific Linguistics Series C, 104. Canberra: Australian National University, 1989.

MIGOT, André. "Recherches sur les dialectes tibétains du Si-k'ang (Province de Kham)." *Bulletin de l'École Française d'Extrême-Orient* 48:417-562, 1957.

MILLER, Roy Andrew. "The independent status of the Lhasa dialect within Central Tibetan." *Orbis* 4:49-55, 1955.

MILLER, Roy Andrew. "Morphologically determined allomorphs in spoken

- Tibetan." *Language* 30:459-60, 1954.
- MILLER, Roy Andrew. "Segmental diachronic phonology of a Ladakhi (Tibetan) dialect." *Zeitschrift der deutschen morgenländischen Gesellschaft* 106: 345-62, 1956.
- MILLER, Roy Andrew. "Studies in spoken Tibetan I: phonemics." *Journal of the American Oriental Society* 75:46-51, 1955.
- NAGANO Yasuhiko. "Preliminary notes on gLo-skad (Mustang Tibetan)." In Graham Thurgood, James A. Matisoff, and David Bradley, eds. *Linguistics of the Sino-Tibetan area: the state of the art. Papers presented to Paul K. Benedict for his 71st birthday*, 451-62. Pacific Linguistics Series C, 87. Canberra: Australian National University, 1985.
- OLSON, Robert F. "Central Khams Tibetan: a phonemic survey." *Kailash* 2: 217-27, 1974.
- OSSORIO, Janet Rae W. *Tsang Tibetan phonology*. Dissertation Abstracts International 43(04):1133, University Microfilms ADG82-21111. Ph.D. dissertation, University of Colorado at Boulder, 1982.
- RAY, Punya Sloka. "Kham phonology." *Journal of the American Oriental Society* 85:336-42, 1965.
- RAY, Punya Sloka. "Outline of Lhasa Tibetan structures." *Indian Linguistics* 25:247-61, 1964.
- RICHTER, Eberhard. *Grundlagen der Phonetik des Lhasa-Dialektes*. Schriften zur Phonetik, Sprachwissenschaft und Kommunikationsforschung 8. Berlin: Akademie-Verlag, 1964.
- RICHTER, Eberhard and Dieter Mehnert. "On the structure and function of aspiration in modern Tibetan." In Eberhard Richter and Manfred Taube, eds. *Asienwissenschaftliche Beiträge: Johannes Schubert in memoriam*, 123-30. Veröffentlichungen des Museums für Völkerkunde zu Leipzig 32. Berlin: Akademie-Verlag, 1978.
- ROERICH, George Nicolas. "Modern Tibetan phonetics." *Journal and Proceedings of the Asiatic Society of Bengal* 27:285-312, 1931.
- ROERICH, George Nicolas. *Le parler de l'Amdo. Étude d'un dialecte archaïque du Tibet*. Serie Orientale Roma 18. Rome: Istituto Italiano per il Medio ed Estremo Oriente, 1958.
- ROERICH, George Nicolas. "The Tibetan dialect of Lahul." *Journal of the*

Urusvati Himalayan Research Institute 3:83-189, 1933.

ROERICH, George Nicolas and Lopsang Phuntsok Lhalungpa. *Textbook of colloquial Tibetan (dialect of Central Tibet)*. Calcutta: Government of West Bengal Education Bureau, 1957. Reprinted in *Bibliotheca Himalayica* II.3. H.K. Kulöy, ed. New Delhi: Mañjuśrī Publishing House, 1972.

RÓNA-TAS, András. "Some remarks on the vowel system of spoken Tibetan." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Körös*, II.215-35. Budapest: Akadémiai Kiadó, 1984.

SANDBERG, Graham. *Handbook of colloquial Tibetan, a practical guide to the language of central Tibet*. Calcutta, 1894.

SCHÖTTELNDREYER, Burkhard. "Clause patterns in Sherpa." In Austin Hale, ed. *Collected Papers on Sherpa Jirel*, 1-57. Nepal Studies in Linguistics 2. Kirtipur: Summer Institute of Linguistics, Institute of Nepal and Asian Studies, 1975.

SCHÖTTELNDREYER, Burkhard. "Vowels and tone in the Sherpa verb." In Austin Hale, ed. *Collected Papers on Sherpa Jirel*, 61-70. Nepal Studies in Linguistics 2. Kirtipur: Summer Institute of Linguistics, Institute of Nepal and Asian Studies, 1975.

SEDLÁČEK, Kamil. "Khongs and its grammaticalized usage in modern written Tibetan." *Zeitschrift der deutschen morgenländischen Gesellschaft* 118:367-72, 1968.

SEDLÁČEK, Kamil. "On the use of plural markers in modern Tibetan." *Central Asiatic Journal* 12:309-21, 1969.

SEDLÁČEK, Kamil. "The tonal system of Tibetan (Lhasa dialect)." *T'oung Pao* 47:181-250, 1959.

SEDLÁČEK, Kamil. "The use of *rkjen* and *stabs* in modern written Tibetan." *Mitteilungen des Instituts für Orientforschung* 17:130-9, 1971.

SEDLÁČEK, Kamil. "Von den verbalen Partikeln *le*, *zi*, *t'al*, und *si* der Osttibetischen (Derge-Dialekt)." *Zeitschrift der deutschen morgenländischen Gesellschaft* 113:579-96, 1963.

SEDLÁČEK, Kamil and B.V. Semichov. *Tibetan newspaper reader*. Leipzig: Verlag Enzyklopädie, 1972.

SHARMA, Suhnu R. "Phonological structure of Spiti." *Linguistics of the Tibeto-*

Burman Area 4.2:83-110, 1979.

SPRIGG, R.K. "Assimilation and the definite nominal particle in Balti Tibetan." *Bulletin of Tibetology* 9.2:5-119, 1972.

SPRIGG, R.K. "Balti-Tibetan verb syllable finals, and a prosodic analysis." *Asia Major* 13:187-210, 1967.

SPRIGG, R.K. "The Chang-Shefts tonal analysis, and the pitch variation of the Lhasa Tibetan tones." *Linguistics of the Tibeto-Burman Area* 6.1:49-59, 1981.

SPRIGG, R.K. "Lepcha and Balti Tibetan: tonal or non-tonal languages?" *Asia Major* 12:185-201, 1966.

SPRIGG, R.K. "The role of *R* in the development of the modern spoken Tibetan dialects." *Acta Orientalia Hungaricae* 21:301-11, 1968.

SPRIGG, R.K. "The tonal system of Tibetan (Lhasa dialect) and the nominal phrase." *Bulletin of the School of Oriental and African Studies* 17:133-53, 1955.

SPRIGG, R.K. "Verbal phrases in Lhasa Tibetan." *Bulletin of the School of Oriental and African Studies* 16:134-56, 320-50, 566-91, 1954.

SPRIGG, R.K. "Vowel harmony in Lhasa Tibetan; prosodic analysis applied to interrelated vocalic features of successive syllables." *Bulletin of the School of Oriental and African Studies* 24:116-38, 1961.

SPRIGG, R.K. "Vowel harmony in noun-and-particle words in the Tibetan of Baltistan." *Bulletin of the School of Oriental and African Studies* 43:511-19, 1980; also in *Acta Orientalia Hungaricae* 34:235-43, 1980.

SUN, Jackson T.S. "Aspects of the historical phonology of Amdo Ndzorge Tibetan." Paper presented at the fourteenth annual International Conference on Sino-Tibetan Languages and Linguistics, University of Florida, Gainesville, 1981.

TOMULIC, Rose. *Manuel de tibétain parler de Lhasa*. Paris: Arc-en-ciel, 1987.

TOURNADRE, Nicolas. "The rhetorical use of the Tibetan ergative." Paper presented at the twenty-third annual International Conference on Sino-Tibetan Languages and Linguistics, University of Texas, Arlington, 1990.

URAY, Géza. *Kelet-Tibet nyelvjárássainak osztályozása*. Dissertationes Sodalium Instituti Asiae Interioris 4. Budapest, 1949.

WANG, Stephen S. "Variants of Lhasa Tibetan verbs 'to be' and 'to exist.'" Paper presented at the twelfth annual International Conference on Sino-

Tibetan Languages and Linguistics, Paris, 1979.

WEN Yu. "Studies in Tibetan Phonetics, Sde-dge dialect." *Studia Serica* 7:63-78, 1948.

WOODBURY, Anthony C. "Interactions of tense and evidentiality: a study of Sherpa and English." In Wallace Chafe and Johanna Nichols, eds. *Evidentiality: the linguistic coding of epistemology*, 188-202. Advances In Discourse Processes 20. Norwood, NJ: Ablex Publishing Corporation, 1986.

ZHANG, Liansheng. "The phonetic structure of ABCB type words in modern Lhasa Tibetan." In Barbara Nimri Aziz and Matthew Kapstein, eds. *Soundings in Tibetan Civilization*, 20-34. Proceedings of the 1982 seminar of the International Association for Tibetan Studies, Columbia University. New Delhi: Manohar, 1985.

16. MORPHOLOGY AND SYNTAX

ANDERSEN, Paul Kent. "Zero-anaphora and related phenomena in Classical Tibetan." *Studies in Language* 11:279-312, 1987.

COBLIN, Weldon South. "Notes on Tibetan verbal morphology." *T'oung Pao* 62:45-70, 1976.

DELANCEY, Scott. "Relativization as nominalization in Tibetan and Newari." Paper presented at the nineteenth annual International Conference on Sino-Tibetan Languages and Linguistics, Ohio State University, Columbus, 1986.

DURR, Jacques A. *Morphologie du verbe tibétain*. Heidelberg, 1950.

EIMER, Helmut. "Eine alttibetische Perfektbildung." *Indo-Iranian Journal* 30:213-14, 1987.

HAHN, Michael. "Grundfragen der tibetischen Morphologie." *Zentralasiatische Studien* 7:425-42, 1973.

KITAMURA, Hajime. "The honorifics in Tibetan." *Acta Asiatica* 29:56-74, 1975.

LYOVIN, Anatole. "Gaps in the verb paradigms of Classical Tibetan." *Working Papers in Linguistics, University of Hawaii* 2.8:129-35, 1970.

LYOVIN, Anatole. "Gaps in the verb paradigms of written Tibetan revisited." Paper presented at the sixth annual International Conference on Sino-Tibetan Languages and Linguistics, University of California, San Diego, 1973.

- MAZAUDON, Martine. "La formation des propositions relative en tibétain." *Bulletin de la Société Linguistique de Paris* 73:401-14, 1978.
- NARKYID, Ngawang Thondup. "Gender markers in Tibetan morphology." In Michael V. Aris and Aung San Suu Kyi, eds. *Tibetan studies in honour of Hugh Richardson: proceedings of the International Seminar on Tibetan Studies, Oxford, 209-18*. Westminster: Aris & Phillips, 1979; Atlantic Highlands, NJ: Humanities Press, 1981.
- PATHAK, Suniti Kumar. "Synonym-compounds in Tibetan." *Poona Orientalist* 22:556-71, 1955.
- PATHAK, Suniti Kumar. "A note on synonym compounds in Tibetan." *Indian Linguistics* 19:163-8, 1958.
- PRZYLUSKI, Jean and Marcelle Lalou. "Le *da-drag* tibétain." *Bulletin of the School of Oriental Studies* 7:87-9, 1933.
- REGAMEY, Constantin. "Considérations sur le système morphologique du tibétain littéraire." *Cahiers Ferdinand de Saussure* 6:26-46, 1947.
- SAXENA, Anju. "Ergative in Mi-la-ras-pa'i rnam thar." *Linguistics of the Tibeto-Burman Area* 12.2:35-9, 1989.
- SEDLÁČEK, Kamil. "Di E-Verbalphrasen des zeitgenössischen Tibetischen." *Central Asiatic Journal* 7:96-118, 1962.
- SEDLÁČEK, Kamil. "Signs of partial phonetic reversion in Tibetan." *Central Asiatic Journal* 9:60-75, 1964.
- SHAFER, Robert. "Prefixed *n*-, *ng*- in Tibetan." *Sino-Tibetica* 1:1-7, 1938.
- SHAFER, Robert. "Prefixed *m*- in Tibetan." *Sino-Tibetica* 3:11-28, 1938.
- SIMON, Walter. "Certain Tibetan suffixes and their combinations." *Harvard Journal of Asiatic Studies* 5:372-91, 1940.
- SIMON, Walter. "Tibetan *dañ*, *ciñ*, *kyin*, *yin*, and *ham*." *Bulletin of the School of Oriental and African Studies* 10:954-75, 1942.
- SHAFER, Robert. "Studies in the morphology of Bodic verbs." *Bulletin of the School of Oriental and African Studies* 13:702-24, 1017-31, 1951.
- SIKLOS, Bulcsu I. "The Tibetan verb: tense and nonsense." *Bulletin of the School of Oriental and African Studies* 49:304-20, 1986.
- SPRIGG, R.K. "Vyanjanabhakti and irregularities in Tibetan verbs." *Bulletin of Tibetology* 7.1:5-20, 7.2:5-19, 1970.

- SPRIGG, R.K. "The Golok dialect and written Tibetan past-tense verb forms." *Bulletin of the School of Oriental and African Studies* 42:53-60, 1979.
- TAUBE, Manfred. "Das Suffix -ma in tibetischen Buchtiteln." *Mitteilungen des Instituts für Orientforschung* 16:107-17, 1970.
- ULVING, Tor. "Umlaut in Tibetan numerals." *T'oung Pao* 47:75-80, 1959.
- ULVING, Tor. "Tibetan vowel harmony re-examined." *T'oung Pao* 58:203-17, 1972.
- URAY, Géza. "A Tibetan diminutive suffix." *Acta Orientalia Hungaricae* 2:182-220, 1952.
- URAY, Géza. "Some problems of the ancient Tibetan verbal morphology, methodological observations on recent studies." *Acta Linguistica Academiae Scientiarum Hungaricae* 3:37-62, 1953.
- URAY, Géza. "Duplication, gemination, and triplication in Tibetan." *Acta Orientalia Hungaricae* 4:177-241, 1954.
- URAY, Géza. "The suffix -e in Tibetan." *Acta Orientalia Hungaricae* 5:229-44, 1955.
- WALLESER, Max. "Affirmative and interrogative sentences in Tibetan." *Indian Linguistics* 5:26-35, 1935.
- WALLESER, Max. "Subordinate clauses in Tibetan." *Indian Linguistics* 5:18-26, 1935.
- WOLFENDEN, Stuart N. "The prefixed *m-* with certain substantives in Tibetan." *Language* 4:277-80, 1928.
- ZIMMERMANN, Hans. *Wortart und Sprachstruktur im Tibetischen*. Freiburger Beiträge zur Indologie 10. Wiesbaden: Otto Harrassowitz, 1979.

17. HISTORY OF TIBETAN

- BAWDEN, C.R. "Mongolian in Tibetan script." *Studia Orientalia* 25.3:3-15, 1960.
- BIELMEIER, Roland. "Problems of Tibetan dialectology and language history with special reference to the *sKyid-groñ* dialect." *Zentralasiatische Studien* 16: 405-25, 1982.
- BIELMEIER, Roland. "A survey of the development of western and southwest-

ern Tibetan dialects." In Barbara Nimri Aziz and Matthew Kapstein, eds. *Soundings in Tibetan Civilization*, 3-19. Proceedings of the 1982 seminar of the International Association for Tibetan Studies, Columbia University. New Delhi: Manohar, 1985.

BIELMEIER, Roland. "Zum Alter eines Lautwandels im Ladakhi." In Klaus Sagaster and Michaels Weiers, eds. *Documenta Barbarorum. Festschrift für Walther Heissig zum 70. Geburtstag*, 17-21. Veröffentlichungen des Societas Uralo-Altaica 18. Wiesbaden: Otto Harrassowitz, 1983.

CHANG, Betty Shefts and Chang Kun. "Tibetan prenasalized initials." *Acta Sinica: Bulletin of the Institute of History and Philology* 48:229-43, 1977.

CLAUSON, G.L.M. and S. Yoshitake, "On the phonetic value of the Tibetan characters 'a' and 'ha' and the equivalent characters in the hphags-pa alphabet." *Journal of the Royal Asiatic Society* (1929):843-62, 1929.

CSONGOR, B. "Some Chinese texts in Tibetan script from Tun-huang." *Acta Orientalia Hungaricae* 10:97-140, 1960.

KERANG, Tan. "On the evolution of Tibetan final *-s." *Linguistics of the Tibeto-Burman Area* 10.1:152-65, 1987.

KRUEGER, John R. "Die tibetischen Lehnwörter im Kalmuckischen." In *Studies in South, East, and Central Asia, presented as a memorial volume to the late Professor Raghu Vira by members of the Permanent International Altaistic Conference*, 53-60. Śāta-Piṭaka series, Indo-Asian Literatures 74. New Delhi: International Academy of Indian Culture, 1968.

KUUPP, Leonard W.J. van der. "Studies in the life and thought of Mkhās-grub-rje IV: Mkhās-grub-rje on regionalism and dialects." *Berliner Indologische Studien* 2:23-50, 1986.

LAPOLLA, Randy J. "Phonetic development of Tibetan." *Linguistics of the Tibeto-Burman Area* 11.2:93-97, 1988.

LAPOLLA, Randy J. "Prefix vs. initial in Tibetan: the question of *-r-." Paper presented at the twenty-first annual International Conference on Sino-Tibetan Languages and Linguistics, University of Lund, 1988.

LAUFER, Berthold. "Bird divination among the Tibetans (notes on document Pelliot no. 3530, with a study of Tibetan phonology of the ninth century)." *T'oung Pao* 15:1-110, 1914. Reprinted in Hartmut Walravens and Lokesh Chandra, eds. *Sino-Tibetan studies*, II.354-463. New Delhi: Rakesh Goel, 1987.

LAUFER, Berthold. "Chinese transcriptions of Tibetan names." *T'oung Pao* 16:

- 420-4, 1915. Reprinted in Hartmut Walravens and Lokesh Chandra, eds. *Sino-Tibetan studies*, II.478-82. New Delhi: Rakesh Goel, 1987.
- LAUFER, Berthold. "Über das *va zur*, ein Beitrag zur Phonetik der Tibetischen Sprachen." *Wiener Zeitschrift für die Kunde der Morgenlandes* 12:289-307, 1898; 13:95-109, 199-226, 1899.
- LI Fang-kuei. "Certain phonetic influences of the Tibetan prefixes upon the root initials." *Academia Sinica: Bulletin of the Institute of History and Philology* 4:135-57, 1933.
- LI Fang-kuei. "The Chinese transcription of Tibetan consonant clusters." *Academia Sinica: Bulletin of the Institute of History and Philology* 50:231-40, 1979.
- LI Fang-kuei. "A problem in the Sino-Tibetan treaty inscription." *Acta Orientalia Hungaricae* 34:121-4, 1980.
- LI Fang-kuei and Weldon South Coblin. *A study of the Old Tibetan inscriptions*. Academia Sinica, Institute of History and Philology, Special Publications 91. Taipei, 1987.
- LIGETI, Louis. "Trois notes sur l'écriture 'phags-pa'." *Acta Orientalia Hungaricae* 13:201-37, 1961.
- MILLER, Roy Andrew. "Early evidence for vowel harmony in Tibetan." *Language* 42:252-77, 1966.
- MILLER, Roy Andrew. "Notes on the Lhasa dialect of the early ninth century." *Oriens* 8:284-91, 1955.
- MILLER, Roy Andrew. "Some problems in Tibetan transcriptions of Chinese from Tun-huang." *Monumenta Serica* 26:123-48, 1967.
- NAKANO Miyoko. *A phonological study in the 'Phags-pa script and the Meng-ku Tzu-yün*. Canberra: Australian National University Press, 1971.
- NISHIDA Tatsuo. "On the development of tones in Tibetan." *Acta Asiatica* 29: 43-55, 1975.
- NORBU, Thubten J. "Gunghangpa's text in colloquial Amdowa." In Ernest Steinkellner and Helmut Tauscher, eds. *Contributions on Tibetan Language, History, and Culture. Proceedings of the Csoma de Körös Symposium held at Velm-Vienna, Austria, 13-19 September 1981*, I.222-42. Wiener Studien zur Tibetologie und Buddhismuskunde 10. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1983.
- PELLIOT, Paul. *Histoire ancienne du Tibet*. Oeuvres posthumes de Paul Pelliot.

- Paris: Adrien-Maisonneuve, 1961.
- PELLIOT, Paul. "Quelques transcriptions chinoises des noms tibétains." *T'oung Pao* 16:1-26, 1915.
- POPPE, Nicholas. *The Mongolian monuments in hP'ags-pa script*. John R. Krueger, ed. Göttinger Asiatische Forschungen 8. Wiesbaden: Otto Harrassowitz, 1957.
- QIAN Che. "Certain phonetic changes in Tibetan in the light of variant and erroneous spellings in Old Tibetan documents of the Royal period." *Linguistics of the Tibeto-Burman Area* 13.1:1-10, 1990.
- ROERICH, George Nicolas. "Tibetan loan words in Mongolian." In Kshitis Roy, ed. *Liebenthal Festschrift*. Special publication of *Sino-Indian Studies* 5.3-4:174-80, 1957.
- RÓNA-TAS, András. "Linguistic notes on an Amdowa text." In Ernest Steinkellner and Helmut Tauscher, eds. *Contributions on Tibetan Language, History, and Culture. Proceedings of the Csoma de Körös Symposium held at Velm-Vienna, Austria, 13-19 September 1981*, I.243-80. Wiener Studien zur Tibetologie und Buddhismuskunde 10. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1983.
- RÓNA-TAS, András. "Tibetological remarks on the Mongolian versions of the Thar-pa čhen-po. In *Études tibétaines dédiées à la mémoire de Marcelle Lalou*, 440-7. Paris: Adrien-Maisonneuve, 1972.
- RÓNA-TAS, András. *Tibeto-Mongolica: the Tibetan loanwords of Mongolian and the development of the archaic Tibetan dialects*. Indo-Iranian monographs 7. The Hague: Mouton & Co., 1966.
- RÓNA-TAS, András. *Wiener Vorlesungen zur Sprach- und Kulturgeschichte Tibets*. Wiener Studien zur Tibetologie und Buddhismuskunde 13. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1985.
- SEDŁÁČEK, Kamil. "On Tibetan transcription of Chinese characters." *Mitteilungen des Instituts für Orientforschung* 5:91-112, 1957.
- SIMON, Walter. "Alternation of final vowel with final dental nasal or plosive in Tibetan." *Bulletin of the School of Oriental and African Studies* 40:51-7, 1977.
- SIMON, Walter. "A Chinese prayer in Tibetan script." In Kshitis Roy, ed. *Liebenthal Festschrift*. Special publication of *Sino-Indian Studies* 5.3-4:192-199, 1957.

- SIMON, Walter. "Iotization and palatization in classical Tibetan." *Bulletin of the School of Oriental and African Studies* 38:611-14, 1975.
- SIMON, Walter. "Loss of *l* or *r* in Tibetan initial consonantal clusters." *Bulletin of the School of Oriental and African Studies* 37:442-5, 1974.
- SIMON, Walter. "A note on Chinese texts in Tibetan transcription." *Bulletin of the School of Oriental and African Studies* 21:334-43, 1958.
- SIMON, Walter. "The reconstruction of the original cluster 'nasal plus *r*' through Tibetan-Chinese word equations." *Proceedings of the International Congress of Orientalists* 25:163-9, 1960.
- SIMON, Walter. "Tibetan 'fifteen' and 'eighteen'." In *Études tibétaines dédiées à la mémoire de Marcelle Lalou*, 472-78. Paris: Adrien-Maisonneuve, 1972.
- SIMON, Walter. "Tibetan initial clusters of nasal and *R*." *Asia Major* 19:246-51, 1975.
- SIMON, Walter. "Tibetan *lh*- and *hr*- in alternation with other initial consonant clusters, or with simple initial *l*- and *r*." *Asia Major* 17:216-22, 1972.
- SIMON, Walter. "Two final consonant clusters in archaic Tibetan." *Academia Sinica: Bulletin of the Institute of History and Philology* 29:87-90, 1957.
- SIMON, Walter. "Vowel alternation in Tibetan." *Asia Major* 19:86-99, 1974.
- SPRIGG, R.K. "A polysystemic approach, in Proto-Tibetan reconstruction, to tone and syllable-initial consonant clusters." *Bulletin of the School of Oriental and African Studies* 35:546-87, 1972.
- SPRIGG, R.K. "The syllable finals of Tibetan loan words in Lepcha orthography." *Linguistics of the Tibeto-Burman Area* 9.1:27-46, 1986.
- SPRIGG, R.K. "Vocalic alternation in the Balti, the Lhasa, and the Sherpa verb, as a guide to alternations in Written Tibetan, and to Proto-Tibetan reconstruction." *Bulletin of the School of Oriental and African Studies* 43:110-22, 1980.
- STEINKELLNER, Ernst. "A literary source for late 18th-century spoken Tibetan (Amdowa)." *Acta Orientalia Hungaricae* 34:245-48, 1980.
- TAKATA Tokio. "Sur la naissance des tons du tibétain." *Journal Asiatique* 269: 277-85, 1981.
- TANG Jian. "Types and orders of vowel assimilatory processes in the Ancient Tibetan language." Paper presented at the twenty-first annual International

Conference on Sino-Tibetan Languages and Linguistics, University of Lund, 1988.

THOMAS, Frederick William and G.L.M. Clausen. "A Chinese Buddhist text in Tibetan writing." *Journal of the Royal Asiatic Society* (1926):508-26, 1926.

THOMAS, Frederick William and G.L.M. Clausen. "A second Chinese Buddhist text in Tibetan characters." *Journal of the Royal Asiatic Society* (1927):281-306, 858-60, 1927.

THOMAS, Frederick William, S. Miyamoto, and G.L.M. Clausen. "A Chinese Mahāyāna catechism in Tibetan and Chinese characters." *Journal of the Royal Asiatic Society* (1929):37-76, 1929.

WANG, Stephen S. "Consonantal clusters of Tibetan loanwords in Stau." *Monumenta Serica* 29:631-58, 1970-71.

WEIDERT, Alfons K. "Tonogenesis in the Tibetan dialects of Bhutan." Paper presented at the nineteenth annual International Conference on Sino-Tibetan Languages and Linguistics, Ohio State University, Columbus, 1986.

YAO Wang. "A study on the ancient pronunciation of the word *mig* in Tibetan." In Ernest Steinkellner and Helmut Tauscher, eds. *Contributions on Tibetan Language, History, and Culture. Proceedings of the Csoma de Körös Symposium held at Velm-Vienna, Austria, 13-19 September 1981*, I.449-55. Wiener Studien zur Tibetologie und Buddhismuskunde 10. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1983.

ZHANG Liansheng. *The consonant system of Middle-Old Tibetan and the tonogenesis of Tibetan*. Dissertation Abstracts International 48(09):2328, University Microfilms ADG87-26423. Ph.D. dissertation, University of California-Berkeley, 1989.

ZHANG Liansheng. "A preliminary attempt to reconstruct Middle-Old Tibetan consonants." Paper presented at the nineteenth annual International Conference on Sino-Tibetan Languages and Linguistics, Ohio State University, Columbus, 1986.

ZHANG, Liansheng. "The puzzle of *da-drag* in Tibetan." *Linguistics of the Tibeto-Burman Area* 9.1:47-64, 1986.

18. LITERARY STUDIES

ARDUSSI, John and Lawrence Epstein. "The saintly madman in Tibet." In

- James F. Fisher, ed. *Himalayan anthropology: the Indo-Tibetan interface*, 327-38. The Hague: Mouton, 1978.
- ARIS, Michael. *Hidden treasures and secret lives. A study of Pemalingpa (1450-1521) and the sixth Dalai Lama (1683-1706)*. Delhi: Motilal Banarsi Dass, 1988.
- AZIZ, Barbara Nimri. "The work of Pha-dam-pa Sangs-rgyas as revealed in Ding-ri folklore." In Michael V. Aris and Aung San Suu Kyi, eds. *Tibetan studies in honour of Hugh Richardson: proceedings of the International Seminar on Tibetan Studies, Oxford*, 21-29. Westminster: Aris & Phillips, 1979; Atlantic Highlands, NJ: Humanities Press, 1981.
- BACK, Dieter Michael. *Eine buddhistische Jenseitsreise. Das sogenannte "Totenbuch der Tibeter" aus philologischer Sicht*. Freiburger Beiträge zur Indologie 13. Wiesbaden: Otto Harrassowitz, 1979.
- BALK, Michael. "Indische Etymologien in einem tibetischen Kommentar." In Helmut Eimer, ed. *Vicitrakusumāñjali. Volume presented to Richard Othon Meisezahl on the occasion of his eightieth birthday*, 1-22. Indica et Tibetica 11. Bonn: Indica et Tibetica Verlag, 1986.
- BECKH, Hermann. *Beiträge zur tibetischen Grammatik, Lexicographie, Stilistik, und Metrik*. Berlin: Abhandlungen der Akademie der Wissenschaften, 1908.
- BERNBAUM, Edwin Marshall. *The mythic journey and its symbolism: a study of the development of Buddhist guidebooks to Sambhala in relation to their antecedents in Hindu mythology*. Dissertation Abstracts International 47(03):0942, University Microfilms ADG86-09940. Ph.D. dissertation, University of California—Berkeley, 1985.
- BLONDEAU, Anne-Marie. "Le «découvreur» du *Mani bka'*-'burn était-il bonpo?" In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Körös*, 1.77-123. Budapest: Akadémiai Kiadó, 1984.
- BLONDEAU, Anne-Marie. "Le Lha 'dre bka' thañ." In *Études tibétaines dédiées à la mémoire de Marcelle Lalou*, 29-126. Paris: Adrien-Maisonneuve, 1972.
- BLONDEAU, Anne-Marie. *Matériaux pour l'étude de l'hippiologie et de l'hippiatrie tibétaines à partir des manuscrits de Touen-Houang*. Hautes Études Orientales 2. Genève: Libraririe Droz, 1972.
- BROUGHTON, Jeffrey. "Early Ch'an schools in Tibet." In Robert M. Gimello and Peter N. Gregory, eds. *Studies in Ch'an and Hua-yen*, 1-68. Kuroda Institute Studies in East Asian Buddhism 1. Honolulu: University of Hawaii

Press, 1983.

DASH, Bhagwan. *Tibetan medicine, with special reference to Yoga Śākta*. Dharamsala: Library of Tibetan Works and Archives, 1976.

DRAGHI, Paul Alexander. *A comparative study of the theme of the conversion of a hunter in Tibetan, Bhutanese and medieval sources*. Dissertation Abstracts International 41(12):5090, University Microfilms ADG81-12485. Ph.D. dissertation, Indiana University, 1980.

DURR, Jacques A. "Wie übersetze ich Tibetisch? oder Probleme der vergleichenden Sprachwissenschaft der tibetisch-barmanischen Sprachengruppe." *Asiatica, Festschrift Friedrich Weller*, 53-77. Leipzig, 1954.

EIMER, Helmut. "Editing the Sa skyā legs bśad." *Zentralasiatische Studien* 21:20-28, 1988.

EPPLING, John Frederick. *A calculus of creative expression: the central chapter of Dañdin's Kāvyaśarṣa*. Dissertation Abstracts International 50(10):3230, University Microfilms ADG89-14509. Ph.D. dissertation, University of Wisconsin—Madison, 1989.

EPSTEIN, Lawrence. "On the history and psychology of the 'das-log.'" *The Tibet Journal* 7.4:20-85, 1982.

FABER, Flemming. "The council of Tibet according to the sBa bzhed." *Acta Orientalia* 47:31-61, 1985.

FABER, Flemming. "A Tibetan Dunhuang treatise on simultaneous enlightenment: the dMyigs su myed pa tshul gcig pa'i gzhung." *Acta Orientalia* 46:47-77, 1985.

GOODMAN, Steven D. *The kLong-chen snying-thig: an eighteenth century Tibetan revelation*. Dissertation Abstracts International 46(05):1282, University Microfilms ADG05-56172. Ph.D. dissertation, University of Saskatchewan, 1985.

GYATSO, Janet. *A literary transmission of the traditions of Thang-stong rGyal-po: a study of visionary Buddhism in Tibet*. Dissertation Abstracts International 43(05):1586, University Microfilms ADG82-11946. Ph.D. dissertation, University of California—Berkeley, 1989.

HAHN, Michael. "Bemerkungen zu zwei Texten aus dem Phudrag-Kanjur." In Helmut Eimer, ed. *Indology and Indo-Tibetology. Thirty years of Indian and Indo-Tibetan studies in Bonn*. Indica et Tibetica 13. Bonn: Indica et Tibetica Verlag, 1988.

- HAHN, Michael. "Zu den Quellen einiger Strophen aus Sa Skya Pañdita's *Subhāśitaratnānidhi*." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Kőrös*, I.251-66. Budapest: Akadémiai Kiadó, 1984.
- HAARRH, Erik. *The Yar-luñ dynasty. A study with particular regard to the contribution by myths and legends to the history of Ancient Tibet and the origin and nature of its kings*. København: G.E.C. Gad's Forlag, 1969.
- HERRMANN-PFANDT, Adelheid. "Zur Vorgeburtsgeschichte einer verkörperten Dākiṇī." In Helmut Eimer, ed. *Vicitrakusumāñjali. Volume presented to Richard Othon Meisezahl on the occasion of his eightieth birthday*, 113-24. Indica et Tibetica 11. Bonn: Indica et Tibetica Verlag, 1986.
- HOUSTON, Gary W. "The system of Ha Śāng Mahāyāna." *Central Asiatic Journal* 21:105-10, 1977.
- IMAEDA Yoshiro. "Documents tibétains de Touen-houang concernant le concile du Tibet." *Journal asiatique* 263:125-46, 1975.
- IMAEDA Yoshiro. "L'identification de l'original chinois du Pelliot Tibétain 1291. Traduction tibétaine du Zhanguoce." *Acta Orientalia Hungaricae* 34:53-68, 1980.
- JACKSON, Roger. "Sa-skya pañdita's account of the Bsam-yas debate: history as polemic." *Journal of the International Association of Buddhist Studies* 4.2:89-99, 1981.
- JACKSON, Roger. "Sa-skya pañdita's letter to the Tibetans: a late and dubious addition to his collected works." *Journal of the Tibet Society* 6:17-23, 1986.
- JONG, Jan Willem de. "Encore une fois le Fonds Pelliot tibétain no. 610." *Central Asiatic Journal* 12:1-7, 1968.
- JONG, Jan Willem de. "Un fragment de l'histoire de Rāma en Tibétain." In *Études tibétaines dédiées à la mémoire de Marcelle Lalou*, 127-41. Paris: Adrien-Maisonneuve, 1972.
- JONG, Jan Willem de. "An old Tibetan version of the Rāmāyana." In Venkatarama Raghavan, ed. *Proceedings of the First International Sanskrit Conference*, II.1.289-302. New Delhi: Rashtriya Sanskrit Sansthan, 1975.
- KAPSTEIN, Matthew. "Religious syncretism in 13th century Tibet: *The Limitless Ocean Cycle*." In Barbara Nimri Aziz and Matthew Kapstein, eds. *Soundings in Tibetan Civilization*, 358-71. Proceedings of the 1982 seminar of the International Association for Tibetan Studies, Columbia University. New Delhi:

Manohar, 1985.

KARMAY, Samten G. "L'apparition du petit homme tête-noir (création et procréation des Tibétains selon un myth indigène)." *Journal asiatique* 274:79-138, 1986.

KARMAY, Samten G. *A catalogue of Bonpo publications*. Tokyo: The Toyo Bunko, 1977.

KARMAY, Samten G. "A gZer-mig version of the interview between Confucius and Phya Keñ-tse lan-med." *Bulletin of the School of Oriental and African Studies* 38:562-80, 1975.

KARMAY, Samten G. "The ordinance of lHa Bla-ma Ye-shes-'od." In Michael V. Aris and Aung San Suu Kyi, eds. *Tibetan studies in honour of Hugh Richardson: proceedings of the International Seminar on Tibetan Studies, Oxford*, 150-62. Westminster: Aris & Phillips, 1979; Atlantic Highlands, NJ: Humanities Press, 1981.

KAWAMURA, Leslie S. "Is reconstruction from Tibetan into Sanskrit possible?" In Harold G. Coward, ed. *Language in Indian philosophy and religion*, 83-93. Waterloo: Wilfrid Laurier University Press, 1978; also in *Studies in Religion* 5:83-93, 1978.

KIMURA Ryūtoku. "Le dhyāna chinoise au Tibet ancien d'après Mahayana." *Journal Asiatique* 269:183-92, 1981.

KIRKLAND, J. Russell. "The spirit of the mountain: myth and state in pre-Buddhist Tibet." *History of Religions* 21:257-71, 1982.

KŁAFKOWSKI, Piotr. "Hand and finger measurements in Tibetan." *Lingua Posnaniensis* 26:85-97, 1983.

KLAUS, Christa. *Der aus dem Lotos entstandene. Ein Beitrag zur Ikonographie und Ikonologie des Padmasambhava nach dem Rin chen gter mdzod*. Asiatische Forschungen 85. Wiesbaden: Otto Harrassowitz, 1982.

KUIJP, Leonard W.J. van der. "Marginalia to Sa-skyā Pañdita's oeuvre." *Journal of the International Association of Buddhist Studies* 7:37-55, 1984.

KUIJP, Leonard W.J. van der. "On the sources for Sa-skyā Pañdita's notes on the Bsam-yas debate." *Journal of the International Association of Buddhist Studies* 9:147-53, 1986.

KVAERNE, Per. "The canon of the Tibetan Bonpos." *Indo-Iranian Journal* 16:18-56, 96-144, 1975.

KVAERNE, Per. "'The Great Perfection' in the tradition of the Bonpos." In Whalen Lai and Lewis Lancaster, eds. *Early Ch'an in China and Tibet*, 367-92. Berkeley Buddhist Studies Series 5. Berkeley: Asian Humanities Press, 1983.

KVAERNE, Per. "Mongols and Khitans in a 14th-century Tibetan Bonpo text." *Acta Orientalia Hungaricae* 34:85-104, 1980.

KVAERNE, Per. "A preliminary study of chapter VI of the gZer-mig." In Michael V. Aris and Aung San Suu Kyi, eds. *Tibetan studies in honour of Hugh Richardson: proceedings of the International Seminar on Tibetan Studies, Oxford*, 185-91. Westminster: Aris & Phillips, 1979; Atlantic Highlands, NJ: Humanities Press, 1981.

LANGE, Kristina. "Einige Bemerkungen zur Chronik des fünften Dalai-Lama als Literaturdenkmal." *Acta Orientalia Hungaricae* 41:277-300, 1987.

LICHTER, David and Lawrence Epstein. "Irony in Tibetan notions of the good life." In Charles F. Keyes and E. Valentine Daniel, eds. *Karma: an anthropological inquiry*, 223-59. Berkeley: University of California Press, 1983.

MACDONALD, Alexander W. "Religion in Tibet at the time of Srong-btsan sgam-po: myth as history." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Kőrös*, II.129-40. Budapest: Akadémiai Kiadó, 1984.

MALANOVA, T. "On the Sanskrit Subhāṣita-Literature in Tibet." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Kőrös*, II.141-51. Budapest: Akadémiai Kiadó, 1984.

MANEN, Johan van. "Three Tibetan repartee songs." *Journal of the Asiatic Society of Bengal* 17:287-318, 1921.

MARTIN, Dan. "For love or religion? Another look at a 'love song' by the sixth Dalai Lama." *Zeitschrift der deutschen morgenländischen Gesellschaft* 138: 349-63, 1988.

METTE, Adelheid. "Beobachtungen zur Überlieferungsgeschichte einiger Lieder des Mi la ras pa'i mgur 'bum'." *Indo-Iranian Journal* 18:255-72, 1976.

NATTIER, Jan. *The Candragarbha-sūtra in Central and East Asia: studies in a Buddhist prophecy of decline*. Dissertation Abstracts International 50(02):0466, University Microfilms ADG89-08999. Ph.D. dissertation, Harvard University, 1988.

- NEUMAIER, Eva. "bKa'-brgyad rañ-byuñ-rañ-sar, ein rjogs-c'en-Tantra." *Zeitschrift der deutschen morgenländischen Gesellschaft* 120:131-63, 1970.
- POMMERET, Françoise. *Les revenants de l'au-delà dans le monde tibétain: sources littéraires et tradition vivante*. Paris: Centre National de la Recherche Scientifique, 1989.
- POUCHA, Pavel. "Le vers tibétain." *Archiv Orientální* 18:188-235, 1950; 22:563-85, 1954.
- RHOTON, Jared Douglas. *A study of the sDom-gSum of Sa-pañ*. Dissertation Abstracts International 49(10):3060, University Microfilms ADG88-27637. Ph.D. dissertation, Columbia University, 1985.
- RICHARDSON, Hugh E. "Dharma that came down from heaven: a Tun-huang fragment." In Leslie S. Kawamura and Keith Scott, eds. *Buddhist thought and Asian civilization: essays in honor of Herbert V. Guenther on his sixtieth birthday*, 219-29. Emeryville, CA: Dharma Publishing, 1977.
- RUEGG, D. Seyfort. "Autour du *lTa ba'i khyad* par de Ye šes sde (version de Touen-houang, Pellio Tibétain 814)." *Journal Asiatique* 269:207-29, 1981.
- SAVITSKY, L.S. "Secular lyrical poetry in Tibet. Works of Tsangjang-jamtsö (1683-1706)." *Proceedings of the Csoma de Körös Memorial Symposium*, 403-9. Bibliographia Orientalis Hungarica 23. Budapest: Akadémiai Kiadó, 1978.
- SCHWIEGER, Peter. "Zur Rezeptionsgeschichte des Gsol-'debs le'u bdun-ma und des Gsol-'debs bsam-pa lhun-grub-ma." *Zentralasiatische Studien* 21:29-47, 1988.
- SEDLÁČEK, Kamil. "Tibetische Übersetzungweise von Zeitwörtern des Ergebnisses und der Richtung aus dem Chinesischen." *Journal of the American Oriental Society* 82:170-89, 1962.
- SMITH, Ellis Gene. "Introduction." In Lokesh Chandra, ed. *Kongtrul's Encyclopedia of Indo-Tibetan Culture*, 1-78. Śāta-Piṭaka Series, Indo-Asian Literatures 80. Delhi: International Academy of Indian Culture, 1970.
- SNYDER, Jeanette. "Some popular songs of Tibet." *Malahat Review* 21:20-39, 1972.
- SOLOMON, Beth Ellen. *The Tale of the Incomparable Prince: a study and translation of the Tibetan novel gZhon nu zla med kyi giam rgyud by mDo mkhar zhabs drung Tshe ring dbang rgyal (1697-1763)*. Dissertation Abstracts International 48(04):0926, University Microfilms ADG87-08115. Ph.D. dissertation, University of Wisconsin—Madison, 1987.

- SORENSEN, Per K. *Divinity secularized: an inquiry into the nature and form of the songs ascribed to the sixth Dalai Lama.* Wiener Studien zur Tibetologie und Buddhismuskunde 25. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1990.
- STEIN, Rolf Alfred. "Du recit au rituel dans les manuscrits tibétains de Touen-houang." In *Études tibétaines dédiées à la mémoire de Marcelle Lalou*, 479-547. Paris: Adrien-Maisonneuve, 1972.
- STEIN, Rolf Alfred. "Un genre particulier d'exposés du tantrisme ancien tibétain et khotanais." *Journal Asiatique* 275:265-82, 1987.
- STEIN, Rolf Alfred. "Tibetica antiqua 2. L'usage de métaphores por des distinctions honorifiques à l'époque des rois tibétains." *Bulletin de l'École Française d'Extrême-Orient* 73:257-72, 1984.
- STEIN, Rolf Alfred. *Vie et chants de 'Brug-pa Kun-legs, le yogin.* Paris: G.P. Maisonneuve et Larose, 1972.
- STERNBACH, Ludwik. "General appeal of *subhāṣita* literature in Sanskrit." In Venkatarama Raghavan, ed. *Proceedings of the First International Sanskrit Conference*, II.1.370-97. New Delhi: Rashtriya Sanskrit Sansthan, 1975.
- STERNBACH, Ludwik. "Note on the 'identification' of some sayings in Sa Skya Paṇḍita's *Subhāṣita-ratna-nidhi*." *Acta Orientalia Hungaricae* 34:249-62, 1980.
- STODDARD, Heather. *Le mendiant de l'Amdo.* Paris: Société d'Ethnographie, 1985.
- TAUBE, Manfred. *Beiträge zur Geschichte der medizinischen Literatur Tibets.* Monumenta Tibetica Historica. Abteilung I: Scriptores 1. Sankt Augustin: VGH Wissenschaftsverlag, 1981.
- TAUBE, Manfred. "Tibetische Autoren zur Geschichte der *Pgyud bži*." *Acta Orientalia Hungaricae* 34:297-304, 1980.
- TERJÉK, Jozsef. "Colloquial influences on written Tibetan." *Acta Orientalia Hungaricae* 25:39-51, 1972.
- TISO, Francis Vincent. *A study of the Buddhist saint in relation to the biographical tradition of Milarepa.* Dissertation Abstracts International 50(06):1697, University Microfilms ADG89-19193. Ph.D. dissertation, Columbia University, 1989.
- TSEKING, Pema. "Ein enzyklopädischer Text zur Geschichte der tibetischen Heilkunde." In Herbert Francke and Walther Heissig, eds. *Heilen und*

- schenken. *Festschrift für Günther Klinge zum 70. Geburtstag*, 107-20. Asiatische Forschungen 71. Wiesbaden: Otto Harrassowitz, 1980.
- TUCCI, Giuseppe. "The Fifth Dalai Lama as a Sanskrit scholar." In Kshitis Roy, ed. *Liebenthal Festschrift*. Special publication of *Sino-Indian Studies* 5.3-4:235-40, 1957.
- TULKU, Mynak R. "Grey wolf in Tibetan tradition." *Bulletin of Tibetology* 4.2: 97-103, 1967.
- TUYL, Charles Don van. *An analysis of chapter twenty-eight of the "Hundred Thousand Songs" of Mila-raspa, a Buddhist poet and saint of tibet*. Dissertation Abstracts International 32(12):6869, University Microfilms ADG72-15933. Ph.D. dissertation, Indiana University, 1972.
- UEBACH, Helga. "Die Besitzurkunde des Se-ra sñags-pa gra-c'añ." In Herbert Francke and Walther Heissig, eds. *Heilen und schenken. Festschrift für Günther Klinge zum 70. Geburtstag*, 121-27. Asiatische Forschungen 71. Wiesbaden: Otto Harrassowitz, 1980.
- UEYAMA Daishun. "The study of Tibetan Ch'an manuscripts recovered from Tun-huang: a review of the field and its prospects." K.W. Eastman and Kyoko Tokuno, trans. In Whalen Lai and Lewis Lancaster, eds. *Early Ch'an in China and Tibet*, 327-49. Berkeley Buddhist Studies Series 5. Berkeley: Asian Humanities Press, 1983.
- URAY, Géza. "The earliest evidence of the use of the Chinese sexagenary cycle in Tibetan." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Körös*, II.341-60. Budapest: Akadémiai Kiadó, 1984.
- URAY, Géza. "Queen Sad-mar-kar's songs in the Old Tibetan Chronicle." *Acta Orientalia Hungaricae* 25:5-38, 1972.
- VALBY, James M. *The life and ideas of the 8th century A.D. Indian Buddhist mystic Vimalamitra: a computer-assisted approach to Tibetan texts*. Dissertation Abstracts International 46(12):3722, University Microfilms ADG05-57843. Ph.D. dissertation, University of Saskatchewan, 1985.
- VEKERDI, József. "Some remarks on Tibetan prosody." *Acta Orientalia Hungaricae* 2:221-34, 1952.
- VOGEL, Claus. "On the Nā-ro-pai mam-thar." *Central Asiatic Journal* 12:8-30, 1968.
- WALTER, Michael Lee. *The role of alchemy and medicine in Indo-Tibetan*

tantrism. Dissertation Abstracts International 41(05):2115, University Microfilms ADG80-24583. Ph.D. dissertation, Indiana University, 1980.

WAYMAN, Alex. "Observations on translation from the classical Tibetan language into European languages." *Indo-Iranian Journal* 14:161-92, 1972.

WILLIS, Janice D. "On the nature of *mam-thar*: early Dge-lugs-pa *siddha* biographies." In Barbara Nimri Aziz and Matthew Kapstein, eds. *Soundings in Tibetan Civilization*, 304-19. Proceedings of the 1982 seminar of the International Association for Tibetan Studies, Columbia University. New Delhi: Manohar, 1985.

19. LITERATURE IN MOTION

BISCHOFF, Friedrich. "Theatre in Tibet." In Henry W. Wells, ed. *Asian drama: a collection of festival papers*. 149-54. Vermillion: University of South Dakota Department of Speech and Dramatic Arts, 1966.

CROSLEY-HOLLAND, Peter. "Form and style in Tibetan folksong melody." *Jahrbuch für Musikalische Völkerkunde* 3:1-16, 1967.

CROSLEY-HOLLAND, Peter. "rGya-gLing hymns of the Karma-Kagyü: the rhythmitonal architecture of some Tibetan instrumental airs." *Selected Reports: Publication of the Program in Ethnomusicology of the University of California at Los Angeles* 1.3.80-114, 1980.

DRAGHI, Paul Alexander. "The stag and the hunting dog: a Bhutanese religious dance and its Tibetan source." *Journal of Popular Culture* 16:169-75, 1982.

ELLINGSON, Terry Jay. "'Don rta dbyangs gsum: Tibetan chant and melodic categories." *Asian Music: Journal of the Society for Asian Music* 10.2.1122-56, 1979.

ELLINGSON, Terry Jay. *The mandala of sound: concepts and sound structures in Tibetan rituals*. Dissertation Abstracts International 40(08):4292, University Microfilms ADG80-01136. Ph.D. dissertation, University Wisconsin—Madison, 1985.

ELLINGSON, Terry Jay. "The mathematics of Tibetan *rol-mo*." *Ethnomusicology* 23:225-43, 1979.

FOLEY, Kathy and M. Joshua Karter. "Tibetan opera music and dance from Lhasa: an interview with Dacidan Duoji and Xiaozhaxi Ciren." *TDR: The Drama Review* 33.1:10-25, 1989.

- Drama Review. A Journal of Performance Studies* 32.3:131-40, 1988.
- FRANCKE, August Hermann. *A lower Ladakhi version of the Kesar saga*, 373-493. *Bibliotheca Indica* 1543. Calcutta, 1905-41.
- GARAFOLA, Lynn. "Tibetan opera troupe." *Dance Magazine* 61.10:98, September 1987.
- HEISSIG, Walther. "Geser-Kongruenzen." *Acta Orientalia Hungaricae* 34:41-51, 1980.
- HEFFER, Mireille. "Les airs dans l'épopée de Ge-sar: tradition orale and tradition écrite." In Walther Heissig, ed. *Fragen der mongolischen Heldendichtung. Teil II. Vorträge des 3. Epensymposiums des Sonderforschungsbereichs 12, Bonn*, 231-44. *Asiatische Forschungen* 73. Wiesbaden: Otto Harrassowitz, 1982.
- HEFFER, Mireille. "Le gandi: un simandre tibétain d'origine indienne." *Yearbook for Traditional Music* 15:112-25, 1983.
- HEFFER, Mireille. "Les instruments de musique liés à la pratique des tantras, d'après un texte de Koñ grol grags pa, 'Ja' mtshon sñiñ po.' In Ernest Steinkellner and Helmut Tauscher, eds. *Contributions on Tibetan Language, History, and Culture. Proceedings of the Csoma de Körös Symposium held at Velm-Vienna, Austria, 13-19 September 1981*, I.83-107. *Wiener Studien zur Tibetologie und Buddhismuskunde* 10. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1983.
- HEFFER, Mireille. "Observations concernant le tambour tibétain *rigma* et son usage." In Nicole Marzac-Holland and Nazir Ali Jairazbhoy, eds. *Essays in honor of Peter Crosley-Holland on his sixty-fifth birthday*, 62-97. *Selected Reports in Ethnomusicology* 4. Los Angeles: University of California—Los Angeles Music Department, 1983.
- HEFFER, Mireille. "Réflexions concernant le chant épique tibétain." *Asian Music: Journal of the Society for Asian Music* 10.2:92-111, 1979.
- HERMANN, P. Matthias. *Das National-Epos der Tibeter Glin König Ce sar*. Regensburg: Verlag Josef F. Hartung, 1965.
- HERRMAN, Silke. "Stand der Epenforschung in West-Tibet." In Walther Heissig, ed. *Fragen der mongolischen Heldendichtung. Teil IV. Vorträge des 5. Epensymposiums des Sonderforschungsbereichs 12, Bonn*, 406-17. *Asiatische Forschungen* 101. Wiesbaden: Otto Harrassowitz, 1987.
- HULTON-BAKER, Robert. *Tibetan Buddhist drama*. Dissertation Abstracts International

national 48(05):1059, University Microfilms ADG87-12490. Ph.D. dissertation, New York University, 1987.

KASCHEWSKY, Rudolf. "Vergleiche als Stilmittel im Gesar-Epos." In Walther Heissig, ed. *Fragen der mongolischen Heldendichtung. Teil III. Vorträge des 4. Epensymposiums des Sonderforschungsbereichs 12, Bonn*, 262-71. Asiatische Forschungen 91. Wiesbaden: Otto Harrassowitz, 1985.

KASHCEWSKY, Rudolf and Pema Tsering. "Epische Motive in tibetischen Volksmärchen." In Walther Heissig, ed. *Fragen der mongolischen Heldendichtung. Teil II. Vorträge des 3. Epensymposiums des Sonderforschungsbereichs 12, Bonn*, 262-71. Asiatische Forschungen 73. Wiesbaden: Otto Harrassowitz, 1982.

KASCHEWSKY, Rudolf and Pema Tsering. "Zur Erstellung eines Motiv- und Inhaltsverzeichnisses tibetischer Gesar-Versionen." In Walther Heissig, ed. *Fragen der mongolischen Heldendichtung. Teil I. Vorträge des 2. Epensymposiums des Sonderforschungsbereichs 12, Bonn*, 360-71. Asiatische Forschungen 72. Wiesbaden: Otto Harrassowitz, 1981.

KASCHEWSKY, Rudolf and Pema Tsering. "Zur Frage der Historizität des Helden Gesar." In Walther Heissig, ed. *Fragen der mongolischen Heldendichtung. Teil IV. Vorträge des 5. Epensymposiums des Sonderforschungsbereichs 12, Bonn*, 390-405. Asiatische Forschungen 101. Wiesbaden: Otto Harrassowitz, 1987.

KAUFMANN, Walter. *Tibetan Buddhist chant*. Bloomington: Indiana University Press, 1975.

KOHN, Richard Jay. *Mani rimdu. Text and tradition in a Tibetan ritual*. Dissertation Abstracts International 49(06):1489, University Microfilms ADG88-09033. Ph.D. dissertation, University of Wisconsin—Madison, 1988.

MACKERRAS, Colin. "Drama in the Tibetan Autonomous Region." *Asian Theatre Journal* 5.2:198-219, 1988.

NEBESKY-WOKOWITZ, René de. *Tibetan religious dances: Tibetan text and annotated translation of the 'chams yig*. Christoph von Führer-Haimendorf, ed. The Hague: Mouton, 1976.

NORBU, Jamyang, ed. *Zlos-gar: performing traditions of Tibet*. Dharamsala: Library of Tibetan Works and Archives, 1986.

SAGASTER, Klaus. "König Gesar, zur Symbolik des tibetischen Nationalepos." *Symbolon* 4:163-71, 1978.

- SAMUEL, Geoffrey. "Songs of Lhasa." *Ethnomusicology* 20:3407-49, 1976.
- SMITH, Huston, Kenneth N. Stevens, and Raymond S. Tomlinson. "On an unusual mode of chanting by certain Tibetan lamas." *Journal of the Acoustical Society of America* 41:1262-64, 1967.
- SNYDER, Jeanette. "A preliminary study of the *lha mo*." *Asian Music: Journal of the Society for Asian Music* 10.2:23-62, 1979.
- STEIN, Rolf Alfred. *Recherches sur l'épopée et le bardé au Tibet*. Bibliothèque de l'Institut des Hautes Études Chinoises 13. Paris: Presses Universitaires de France, 1959.
- STEIN, Rolf Alfred. "Une source ancienne pour l'histoire de l'épopée tibétaine, le Rlañs Po-ti bse-ru." *Journal asiatique* 250:77-106, 1962.
- STEIN, Rolf Alfred. "Le théâtre au Tibet." In *Théâtres*, 245-56. Paris: Centre National de la Recherche Scientifique, 1978.
- TSERING, Pema. "Die Eroberung der Goldburg von mÑa'-ris." In Walther Heissig, ed. *Fragen der mongolischen Heldendichtung. Teil III. Vorträge des 4. Epensymposiums des Sonderforschungsbereichs 12, Bonn*, 555-88. Asiatische Forschungen 91. Wiesbaden: Otto Harrassowitz, 1985.
- TSERING, Pema. "Historische, epische und ikonographische Aspekte des gLiñ Gesar nach tibetischen Quellen." In Walther Heissig, ed. *Die mongolischen Epen: Bezüge, Sinndeutung und Überlieferung*, 158-89. Asiatische Forschungen 68. Wiesbaden: Otto Harrassowitz, 1979.
- TSERING, Pema. "Neuere Ausgaben des tibetischen Gesar-Epos." In Walther Heissig, ed. *Fragen der mongolischen Heldendichtung. Teil II. Vorträge des 3. Epensymposiums des Sonderforschungsbereichs 12, Bonn*, 245-61. Asiatische Forschungen 73. Wiesbaden: Otto Harrassowitz, 1982.
- TSUKAMOTO Atsuko. "The music of Tibetan Buddhism in Ladakh: the musical structure of Tibetan Buddhist chant in the ritual *bskañ-gso* of the *Dge-lugs-pa* sect." *Yearbook for Traditional Music* 15:126-40, 1983.
- URAY, Géza. "Vom römischen Kaiser bis zum König Ge-sar von Gliñ." In Walther Heissig, ed. *Fragen der mongolischen Heldendichtung. Teil III. Vorträge des 4. Epensymposiums des Sonderforschungsbereichs 12, Bonn*, 530-48. Asiatische Forschungen 91. Wiesbaden: Otto Harrassowitz, 1985.
- VANDOR, Ivan. *La musique du bouddhisme tibétain*. Les Traditiones Musicales. Paris: Buchet/Chastel, 1976. Translated as *Die Musik des tibetischen Buddhismus*. Taschenbücher zur Musikwissenschaft 48. Wilhelmshaven: Hein-

richshofen, 1978.

YAO Wang. "Tibetan operatic themes." In Barbara Nimri Aziz and Matthew Kapstein, eds. *Soundings in Tibetan Civilization*, 86-96. Proceedings of the 1982 seminar of the International Association for Tibetan Studies, Columbia University. New Delhi: Manohar, 1985.

20. THE TIBETAN GRAMMARIANS

BACOT, Jacques. *Une grammaire tibétaine du tibétain classique: les slokas grammaticaux de Thonmi Sambhoṭa, avec leurs commentaires*. Annales du Musée Guimet, Bibliothèque d'Études 37. Paris, 1928.

BECKH, Hermann. *Beiträge zur tibetischen Grammatik, Lexicographie, Stilistik, und Metrik*. Berlin: Abhandlungen der Akademie der Wissenschaften, 1908.

BUTZENBERGER, Klaus. "Ein orthographisch-grammatischer Text im Rgyal-rabs gsal-ba'i me-loñ." *Zentralasiatische Studien* 21:48-61, 1988.

DAS, Sarat Chandra. *An introduction to the grammar of the Tibetan language, with the texts of Situ sum-tag, Dag-je salwai me-long, and Situi shal lung*. Darjeeling, 1915; Delhi: Motilal Banarsi Dass, 1972.

DURR, Jacques A. *Deux traités grammaticaux tibétains*. Heidelberg, 1950.

INABA Shōju. *Chibetto go koten bunpōgaku*. Kyoto, 1954.

KLAFKOWSKI, Piotr. "Some remarks on Tibetan traditional grammar: the *Sum-cu-pa* or Thirty Verses on Grammar by dByangs-Can-Rub-Pa'i-rDo-rJe." *Lingua Posnaniensis* 18:79-87, 1975; 21:25-38, 1978.

LAUFER, Berthold. "Studien zur Sprachwissenschaft der Tibeter. Zamatog." *Sitzungsberichte der Bayerischen Akademie der Wissenschaft, Philosophisch-historische Klass* (1898):519-94, 1898.

MILLER, Roy Andrew. "Buddhist hybrid Sanskrit *āli*, *kāli* as grammatical terms in Tibet." *Harvard Journal of Asiatic Studies* 26:125-47, 1966.

MILLER, Roy Andrew. "The first two Tibetan grammatical treatises as known to the Sa Skya Paṇḍita." In Helga Uebach and J. Panglung, eds. *Tibetan studies*, 263-78. *Studia Tibetica, Quellen und Studien zur tibetischen Lexicographie* 2. Munich: Kommission für Zentralasiatische Studien, Bayerische Akademie der Wissenschaften, 1983.

MILLER, Roy Andrew. "Linguistic devices and techniques in the first Tibetan

- grammatical treatise." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Körös*, II.175-95. Budapest: Akadémiai Kiadó, 1984.
- MILLER, Roy Andrew. "Once more on Thon-mi Sambhoṭa and his grammatical treatises." In I. Konks, P. Numerkund, and L. Mall, eds. *Oriental Studies*, 439-60. Tartu: Tartu University, 1973.
- MILLER, Roy Andrew. "Phone, phoneme, and graph in the old Tibetan grammarians." *Acta Orientalia Hungaricae* 34:153-62, 1980.
- MILLER, Roy Andrew. "Some minor Tibetan grammatical fragments." *Zeitschrift der deutschen morgenländischen Gesellschaft* 115:327-40, 1965.
- MILLER, Roy Andrew. *Studies in the grammatical tradition of Tibet*. Amsterdam studies in the theory and history of linguistic science III: Studies in the history of linguistics 6. Amsterdam: John Benjamins, 1976.
- MILLER, Roy Andrew. "Thon-mi Sambhoṭa and his grammatical treatises." *Journal of the American Oriental Society* 83:458-502, 1963.
- MILLER, Roy Andrew. "Thon mi Sambhoṭa and his grammatical treatises revisited." In Ernest Steinkellner and Helmut Tauscher, eds. *Contributions on Tibetan Language, History, and Culture. Proceedings of the Csoma de Körös Symposium held at Velm-Vienna, Austria, 13-19 September 1981*, I.183-205. Wiener Studien zur Tibetologie und Buddhismuskunde 10. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1983.
- MILLER, Roy Andrew. "A twelfth century Tibetan grammatical fragment." *T'oung Pao* 51:72-84, 1964.
- SCHUBERT, Johannes. "Tibetische Nationalgrammatik." *Mitteilungen des Seminars für orientalischen Sprachen und der königlichen Friedrich-Wilhelms-Universität zu Berlin* 31:1-59, 1928; 32:1-54, 1929.
- SCHUBERT, Johannes. *Tibetische Nationalgrammatik. Das Sum cu pa and Rtags-kyi 'ajug pa des Grosslamas von Peking Rol pai rdo-rje*. Leipzig, 1937.
- SIMONSSON, Nils. "On the concept of sentence in ancient Indian and Tibetan theory and on the function of case particles in Tibetan according to Tibetan grammarians." *Fennō-Ugrica Suecana* 5:281-91, 1982.
- TILLEMANS, Tom J.F. and Derek D. Herforth. *Agents and actions in Classical Tibetan: the indigenous grammarians on bdag and gzan and bya byed las gsum*. Wiener Studien zur Tibetologie und Buddhismuskunde 21. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1989.

21. TIBETAN HERMENEUTICS

BROIDO, Michael M. "Abhiprāya and implication in Tibetan linguistics." *Journal of Indian Philosophy* 12:1-34, 1984.

BROIDO, Michael M. "The term *dngos-po'i gnas-lugs* as used in Pad-ma dkar-po's *gZhung'-grel*." In Michael V. Aris and Aung San Suu Kyi, eds. *Tibetan studies in honour of Hugh Richardson: proceedings of the International Seminar on Tibetan Studies, Oxford*, 59-66. Westminster: Aris & Phillips, 1979; Atlantic Highlands, NJ: Humanities Press, 1981.

CABEZON, Jose Ignacio. "The prāśangikas' views on logic: Tibetan Dge lugs pa exegesis on the question of *svatantras*." *Journal of Indian Philosophy* 16:217-24, 1988.

GOLDBERG, Margaret Ellen. *Argumentation and understanding: a study of Tibetan religious debate*. Dissertation Abstracts International 46(07):2090, University Microfilms ADG85-21770. Ph.D. dissertation, University of Illinois at Urbana-Champaign, 1985.

GOLDBERG, Margaret Ellen. "Entity and antonymy in Tibetan *bsdus grwa* logic." *Journal of Indian Philosophy* 13:153-200, 273-304, 1985.

GUENTHER, Herbert V. "Hermeneutics in Tibetan Buddhism." *Religious Traditions* 1:39-47, 1978.

JACKSON, David P. *The entrance gate for the wise (section III). Sa-skya pandita on Indian and Tibetan traditions of pramāṇa and philosophical debate*. Wiener Studien zur Tibetologie und Buddhismuskunde 17. Wien: Arbeitskreis für Tibetische und Buddhistische Studien, Universität Wien, 1987.

KAPSTEIN, Matthew. "Mi-pham's theory of interpretation." In Donald S. Lopez, Jr., ed. *Buddhist hermeneutics*, 149-74. Honolulu: University of Hawaii Press, 1988.

KAPSTEIN, Matthew. "The purificatory gem and its cleaning: a late Tibetan polemical discussion of apocryphal texts." *History of Religions* 28:217-44, 1989.

KUIJP, Leonard W.J. van der. "Bhāmaha in Tibet." *Indo-Iranian Journal* 29:31-39, 1986.

KUIJP, Leonard W.J. van der. "An early Tibetan view of the soteriology of Buddhist epistemology: the case of 'Bri-gung 'Jig-ten mgon-po.'" *Journal of Indian Philosophy* 15:57-70, 1987.

- KUUP, Leonard W.J. van der. "On the interpretation of *Kāvyādaśa* II.274." *Studien zur Indologie und Iranistik* 8-9:69-76, 1982-83.
- KUUP, Leonard W.J. van der. "Sa-skya Pañdita Kun-dga' rgyal-mtshan on the typology of literary genres." *Studien zur Indologie und Iranistik* 11-12:41-52, 1986.
- LIPPMAN, Kennard. "*Nūrtha*, *neyārtha*, and *tathāgatagarbha* in Tibet." *Journal of Indian Philosophy* 8:87-95, 1980.
- PERDUE, Daniel Elmo. *Practice and theory of philosophical debate in Tibetan Buddhist education*. Dissertation Abstracts International 45(05):1433, University Microfilms ADG84-15445. Ph.D. dissertation, University of Virginia, 1983.
- RUEGG, D. Seyfort. "An Indian source for the Tibetan hermeneutical term *dgoñs-gzì* 'intentional ground.'" *Journal of Indian Philosophy* 16:1-4, 1988.
- RUEGG, D. Seyfort. "Purport, implicature and presupposition: Sanskrit *abhiprāya* and Tibetan *dgoñs-pā/dgoñs-gzì* as hermeneutical concepts." *Journal of Indian Philosophy* 13:309-25, 1985.
- RUEGG, D. Seyfort. "On translating the Buddhist canon (a dictionary of Indo-Tibetan terminology in Tibetan and Mongolian: the *Dag yig mkhas pa'i 'byuñ* of Rol-pa'i-rdo-rje)." In Perala Ratnam, ed. *Studies in Indo-Asian art and culture. Commemorative volume on the 71st birthday of Acharya Raghuñ Vira*, III.243-61. Śata-Pitaka series, Indo-Asian Literatures 209. Delhi: International Academy of Indian Culture, 1973.
- SIMONSSON, Nils. *Indo-tibetische Studien, Vol. I: Die Methoden der tibetischer Übersetzer, untersucht im Hinblick auf die Bedeutung ihrer Übersetzung für die Sanskritphilologie*. Uppsala: Almqvist and Wiksell, 1957.
- SIMONSSON, Nils. "A note on the knowledge of Indian grammar among the Tibetan translators of the ninth century." *Orientalia Suecana* 33-35:385-89, 1984-86.
- TILLEMANS, Tom J.F. "Formal and semantic aspects of Tibetan Buddhist debate logic." *Journal of Indian Philosophy* 17:265-97, 1989.
- WAYMAN, Alex. "The interlineary-type commentary in Tibetan." In Louis Ligeti, ed. *Tibetan and Buddhist studies commemorating the 200th anniversary of the birth of Alexander Csoma de Kőrös*, II.367-79. Budapest: Akadémiai Kiadó, 1984.
- WILLIAMS, Paul. "A note on some aspects of Mi bskyod rdo rje's critique of

- Dge lugs pa madhyamaka." *Journal of Indian Philosophy* 11:125-46, 1983.
- WILLIAMS, Paul. "rMa bya pa Byang chub brtson 'grus on Madhyamaka method." *Journal of Indian Philosophy* 13:205-25, 1985.

22. TIBETAN GRAMMAR IN CONTEXT

- ARIEL, Mira. *Accessing noun-phrase antecedents*. London: Routledge, 1990.
- BEAUGRANDE, Robert-Alain de and Wolfgang Ulrich Dressler. *Introduction to text linguistics*. London: Longman, 1981.
- BROWN, Gillian and George Yule. *Discourse analysis*. Cambridge: Cambridge University Press, 1983.
- BROWN, Penelope and Stephen C. Levinson. *Politeness. Some universals in language usage*. Studies in Interactional Sociolinguistics 4. Cambridge: Cambridge University Press, 1987.
- BYBEE, Joan L. "The diachronic dimension in explanation." In John A. Hawkins, ed. *Explaining language universals*, 350-77. Oxford: Basil Blackwell Ltd, 1988.
- BYBEE, Joan L. *Morphology: a study of the relation between meaning and form*. Typological Studies in Language 9. Amsterdam: Johh Benjamins, 1985.
- BYNON, Theodora. *Historical linguistics*. Cambridge: Cambridge University Press, 1977.
- CHAMBERS, J.K. and Peter Trudgill. *Dialectology*. Cambridge: Cambridge University Press, 1980.
- CHEN, M.Y. and W.S.-Y. Wang. "Sound change: actuation and implementation." *Language* 51:255-81, 1975.
- COMRIE, Bernard. "Coreference and conjunction reduction in grammar and discourse." In John A. Hawkins, ed. *Explaining language universals*, 186-208. Oxford: Basil Blackwell Ltd, 1988.
- COMRIE, Bernard. "Ergativity." In Winfred P. Lehmann, ed. *Syntactic typology*, 329-394. Austin: University of Texas Press, 1978.
- COMRIE, Bernard. *Language universals and linguistic typology*. 2nd edition. Chicago: University of Chicago Press, 1987.
- COMRIE, Bernard. "Markedness, grammar, people and the world." In Fred R.

Eckman, Edith A. Moravcsik, and Jessica R. Wirth, eds. *Markedness*, 85-106. New York: Plenum Press, 1986.

COMRIE, Bernard. "Some general properties of reference-tracking systems." In Doug Arnold, Martin Atkinson, Jacques Durand, Claire Grover, and Louisa Sadler, eds. *Essays on grammatical theory and universal grammar*, 37-51. Oxford: Clarendon Press, 1989.

COMRIE, Bernard and Edward Keenan. "Noun phrase accessibility revisited." *Language* 55:649-64, 1979.

CONTE, Maria-Elisabeth, János S. Petöfi, and Emel Sözer, eds. *Text and discourse connectedness*. Proceedings of the Conference on Connexity and Coherence, Urbino. Studies in Language Companion Series 16. Amsterdam: John Benjamins, 1989.

CROFT, William. "Semantic and pragmatic correlates to syntactic categories." In David Testen, Veena Mishra, and Joseph Drogo, eds. *Papers from the parasession on lexical semantics, twentieth regional meeting of the Chicago Linguistic Society*, 53-71. Chicago: Chicago Linguistics Society, 1984.

CROFT, William. *Syntactic categories and grammatical relations: the cognitive organization of information*. Chicago; University of Chicago Press, 1991.

DELANCEY, Scott. "On active typology and the nature of agentivity." In Frans Plank, ed. *Relational typology*, 47-60. Trends in Linguistics, Studies and Monographs 28. Berlin: Mouton Publishers, 1985.

DELANCEY, Scott. "Aspect, transitivity and viewpoint." In Paul Hopper, ed. *Tense and aspect: between semantics and pragmatics*, 167-84. Typological Studies in Language 1. Amsterdam: John Benjamins, 1982.

DENNY, J. Peter. "Locating the universals in lexical systems for spatial deixis." In Donka Farkas, Wesley M. Jacobson, and Karol W. Todrys, eds. *Papers from the parasession on the lexicon, fourteenth regional meeting of the Chicago Linguistic Society*, 71-84. Chicago: Chicago Linguistic Society, 1978.

DUK, Teun A. van. *Text and context. Explorations in the semantics and pragmatics of discourse*. London: Longman, 1977.

DUBOIS, John A. "The discourse basis of ergativity." *Language* 64:805-55, 1987.

FOLEY, William A. and Robert D. van Valin, Jr. *Functional syntax and universal grammar*. Cambridge Studies in Linguistics 38. Cambridge: Cambridge University Press, 1984.

- GALAMBOS, Sylvia Joseph. "A clarification of the notion of topic: evidence from popular spoken French." In Jody Kreiman and Almerindo E. Ojeda, eds. *Papers from the parasession on pronouns and anaphora, sixteenth regional meeting of the Chicago Linguistic Society*, 125-138. Chhcago: Chicago Linguistics Society, 1980.
- GIVÓN, Talmy. "From discourse to syntax: grammar as a processing strategy." In Givón, Talmy, ed. *Discourse and syntax*, 81-112. Syntax and semantics 12. New York: Academic Press, 1979.
- GIVÓN, Talmy. "Negation in language: pragmatics, function, ontology." *Working papers in language universals* 18:59-116, 1975.
- GIVÓN, Talmy. *On understanding grammar. Perspectives in Neurolinguistics and Psycholinguistics*. New York: Academic Press, 1979.
- GIVÓN, Talmy. "Promotion, accessibility and case marking: toward understanding grammars." *Working papers in language universals* 19:55-125, 1975.
- GIVÓN, Talmy. *Syntax. A functional-typological introduction*. Amsterdam: John Benjamins, 1984.
- GIVÓN, Talmy, ed. *Discourse and syntax*. Syntax and semantics 12. New York: Academic Press, 1979.
- GREENBERG, Joseph H. "Some iconic relationships among place, time, and discourse deixis." In John Haiman, ed. *Iconicity in Syntax. Proceedings of a symposium on iconicity in syntax, Stanford*, 271-87. Typological Studies in Language 5. Amsterdam: John Benjamins, 1985.
- HARRIS, Zellig. "The interrogative in a syntactic framework." In Henry Hiz, ed. *Questions*, 1-35. Synthese Language Library 1. Dordrecht: D. Reidel, 1978.
- HOCK, Hans Heinrich. *Principles of historical linguistics*. Berlin: Mouton de Gruyter, 1986.
- GUNDEL, Jeanette K. "Zero-NP anaphora in Russian: a case of topic-prominence." In Jody Kreiman and Almerindo E. Ojeda, eds. *Papers from the parasession on pronouns and anaphora, sixteenth regional meeting of the Chicago Linguistic Society*, 139-146. Chhcago: Chicago Linguistics Society, 1980.
- HAIMAN, John. "Symmetry." In John Haiman, ed. *Iconicity in Syntax. Proceedings of a symposium on iconicity in syntax, Stanford*, 73-95. Typological Studies in Language 6. Amsterdam: John Benjamins, 1985.
- HALLIDAY, M.A.K. and Ruqaiya Hasan. *Cohesion in English*. English

- Language Series 9. London: Longman Group Limited, 1976.
- HAMBLIN, C.L. *Imperatives*. Oxford: Basil Blackwell, 1987.
- HAYES, Bruce. "Metrics and phonological theory." In Frederick J. Newmeyer, ed. *Linguistics: the Cambridge survey. Volume II. Linguistic theory: extensions and implications*, 220-49. Cambridge: Cambridge University Press, 1988.
- HOPPER, Paul, ed. *Tense and aspect: between semantics and pragmatics*. Typological Studies in Language 1. Amsterdam: John Benjamins, 1982.
- HOPPER, Paul and Sandra A. Thompson. "The discourse basis for lexical categories in universal grammar." *Language* 60:703-52, 1984.
- HORN, L.R. "Some aspects of negation." In Joseph H. Greenberg, C.A. Ferguson and Edith A. Moravcsik, *Universals of human language. Vol. 4: Syntax*, 127-210. Palo Alto: Stanford University Press, 1978.
- HUDSON, R.A. *Sociolinguistics*. Cambridge: Cambridge University Press, 1980.
- KEENAN, Edward and Bernard Comrie. "Noun phrase accessibility and universal grammar." *Linguistic inquiry* 8:63-99, 1977.
- KEENAN, Edward and Bernard Comrie. "Data on the noun phrase accessibility hierarchy." *Language* 55:333-51, 1979.
- KIPARSKY, Paul. "Stress, syntax and meter." In Donald C. Freeman, ed. *Essays in modern stylistics*, 223-72. London: Methuen, 1981.
- KÖNIG, Ekkehard. "Concessive connectives and concessive sentences: cross-linguistic regularities and pragmatic principles." In John A. Hawkins, ed. *Explaining language universals*, 145-166. Oxford: Basil Blackwell Ltd, 1988.
- KUNO Susumu. *Functional syntax. Anaphora, discourse and empathy*. Chicago: University of Chicago Press, 1987.
- LADEFOGED, P. *Preliminaries to linguistic phonetics*. Chicago: University of Chicago Press, 1971.
- LASS, Roger. *Phonology. An introduction to basic concepts*. Cambridge: Cambridge University Press, 1984.
- LEHMANN, Christian. "On the typology of relative clauses." *Linguistics* 24:663-80, 1986.
- LI, Charles, ed. *Subject and topic*. New York: Academic Press, 1976.
- LYONS, John. *Semantics*. Cambridge: Cambridge University Press, 1977.

- ODDIN, David. "Further evidence for the feature [grave]." *Linguistic Inquiry* 9:141-44, 1978.
- MASICA, Colin. *Defining a linguistic area: South Asia*. Chicago: University of Chicago Press, 1976.
- MATTHEWS, A.C. *Morphology. An introduction to the theory of word-structure*. Cambridge: Cambridge University Press, 1974.
- PALMER, F.R. *Mood and modality*. Cambridge: Cambridge University Press, 1986.
- PIANK, Frits, ed. *Ergativity. Towards a theory of grammatical relations*. New York: Academic Press, 1981.
- PIANK, Frits, ed. *Objects. Towards a theory of grammatical relations*. London: Academic Press, 1984.
- PRINCE, Alan. "Metrical forms." In Paul Kiparsky and Gilbert Yotmans, eds. *Rhythm and meter*, 45-80. Phonetics and Phonology 1. San Diego: Academic Press, 1989.
- PRINCE, Ellen F. "Toward a taxonomy of given/new information." In Peter Cole, ed. *Radical pragmatics*, 223-56. New York: Academic Press, 1981.
- SHOPEN, Timothy, ed. *Language typology and syntactic description Vol. 1: Clause structure; Vol. 2: Complex constructions; Vol. 3: Grammatical categories and the lexicon*. Cambridge: Cambridge University Press, 1985.
- STASSEN, Leon. *Comparison and universal grammar*. Oxford: Basil Blackwell, 1985.
- STOCKWELL, Robert P., Paul Schachter, and Barbara Hall Partee. "Relativization." In *The major syntactic structures of English*. New York: Holt, Rinehart and Winston, Inc., 1973.
- THOMPSON, Sandra A. "A discourse approach to the cross-linguistic category 'adjective.'" In Roberta Corrigan, Fred Eckman, and Michael Noonan, eds. *Linguistic categorization*, 245-65. Current Issues in Linguistic Theory 61. Amsterdam: John Benjamins, 1980; also in John A. Hawkins, ed. *Explaining language universals*, 167-185. Oxford: Basil Blackwell Ltd, 1988.
- TOMLIN, Russell, ed. *Coherence and grounding in discourse*. Amsterdam: John Benjamins, 1987.
- TOOLIN, Michael J. *Narrative. A critical linguistic introduction*. London: Routledge, 1988.

- TUITE, Kevin J., Asif Agha, and Randolph Graczyk. "Agentivity, transitivity, and the question of active typology." In William H. Eilfort, Paul D. Kroeber, and Karen L. Peterson, eds. *Papers from the parasession on causatives and agentivity, twenty-first regional meeting, Chicago Linguistic Society*, 252-70. Chicago: Chicago Linguistic Society, 1985.
- TRAUGOTT, Elizabeth Closs. "Conditional markers." In John Haiman, ed. *Iconicity in Syntax. Proceedings of a symposium on iconicity in syntax, Stanford*, 289-307. Typological Studies in Language 6. Amsterdam: John Benjamins, 1985.
- TRAUGOTT, Elizabeth Closs, Alice ter Meulen, Judy Snitzer Reilly, and Charles A. Ferguson, eds. *On conditionals*. Cambridge: Cambridge University Press, 1986.
- TRUDGILL, Peter. *On dialect. Social and geographical perspectives*. New York: New York University Press, 1983.
- WARDHAUGH, Ronald. *An introduction to sociolinguistics*. Oxford: Basil Blackwell, 1986.
- WEINREICH, Uriel. *Languages in contact*. The Hague: Mouton, 1968.
- WIERZBICKA, Anna. "Oats and wheat: the fallacy of arbitrariness." In John Haiman, ed. *Iconicity in Syntax. Proceedings of a symposium on iconicity in syntax, Stanford*, 311-42. Typological Studies in Language 6. Amsterdam: John Benjamins, 1985.
- ZUBIN, David A. and Soonja Choi. "Orientation and gestalt: conceptual organizing principles in the lexicalization of space." In David Testen, Veena Mishra, and Joseph Drogo, eds. *Papers from the parasession on lexical semantics, twentieth regional meeting of the Chicago Linguistic Society*, 333-345. Chicago: Chicago Linguistics Society, 1984.

23. TEXTUAL CRITICISM

- BAILEY, David R. Shackleton. "Editing ancient texts." In Herbert H. Paper, ed. *Language & texts. The nature of linguistic evidence*, 21-32. Ann Arbor: Center for Coördination of Ancient and Modern Studies, University of Michigan, 1975.
- DEARING, Vinton A. *Principles and practice of literary analysis*. Berkeley: University of California Press, 1974.

- HOUSMAN, A.E. *Selected prose*. John Carter, ed. Cambridge: Cambridge University Press, 1961.
- KENNEY, E.J. *The classical text: aspects of editing in the age of the printed book*. Berkeley: University of California Press, 1974.
- MAAS, Paul. *Textual criticism*. London: Oxford University Press, 1958.
- MCGANN, Jerome J. *A critique of modern textual criticism*. Chicago: University of Chicago Press, 1983.
- SIMONSSON, Nils. "Zur indo-tibetischen Textkritik." *Orientalia Suecana* 2:129-52, 1953.
- THORPE, James. *Principles of textual criticism*. San Marino, CA: The Huntington Library, 1972.

24. TRANSLATION

- BROWER, Reuben A., ed. *On translation*. New York: Oxford Universiyy Press, 1966.
- FRAWLEY, William, ed. *Translation. Literary, linguistic, and philosophical perspectives*. Newark: University of Delaware Press, 1984.
- GARRIGUE, Jean, ed. *Translations by American poets*. Athens: Ohio University Press, 1970.
- GIVÓN, Talmy. "Universal grammar, lexical structure and translatability." In F. Guenthner and M. Guenther-Reutter, eds. *Meaning and translation. Philosophical and linguistic approaches*, 235-72. London: Gerald Duckworth & Company Limited, 1978.
- GRAHAM, Joseph F., ed. *Difference in translation*. Ithaca: Cornell University Press, 1985.
- HOLLAND, Dorothy and Naomi Quinn, eds. *Cultural models in language and thought*. Cambridge: Cambridge University Press, 1987.
- KEEAN, Edward L. "Some logical problems in translation." In F. Guenthner and M. Guenther-Reutter, eds. *Meaning and translation. Philosophical and linguistic approaches*, 157-89. London: Gerald Duckworth & Company Limited, 1978.
- KUNST, Arthur Egon. "Practical aspects of the translation seminar and work-

- shop." *Sub-Stance* 16:89-96, 1977.
- LARSON, Mildred L. *Meaning-based translation: a guide to cross-language equivalence*. Lanham, MD: University Press of America, 1984.
- MALONE, Joseph L. *The science of linguistics in the art of translation*. Albany: State University of New York Press, 1988.
- MANGO, Susan. "Alice in two wonderlands: Lewis Carroll in German." *Sub-Stance* 16:63-84, 1977.
- MERWIN, W.S. *Selected translations, 1948-1968*. New York: Atheneum, 1975.
- NIDA, Eugene A. *Toward a science of translating*. Leiden: E.J. Brill, 1964.
- NIDA, Eugene A. and Charles R. Taber. *The theory and practice of translation*. Leiden: E.J. Brill, 1969.
- RAFFEL, Burton. *The art of translating poetry*. University Park: The Pennsylvania State University Press, 1988.
- ROBINSON, Douglas. *The translator's turn*. Baltimore: Johns Hopkins University Press, 1991.
- SCHOGLT, Henry G. *Linguistics, literary analysis, and literary translation*. Toronto: University of Toronto Press, 1988.
- SNELL-HORNBY, Mary. *Translation studies. An integrated approach*. Amsterdam: John Benjamins, 1988.
- SNELL-HORNBY, Mary and Esther Pöhl, eds. *Translation and lexicography*. Papers read at the EURALEX Colloquium held at Innsbruck, 2-5 July 1987. Amsterdam: John Benjamins, 1987.
- STEINER, George. *After Babel*. London: Oxford University Press, 1975.
- SULLIVAN, J.P. *Ezra Pound and Sextus Propertius. A study in creative translation*. London: Faber and Faber, 1964.
- WEAVER, Warren. *Alice in many tongues*. Madison: University of Wisconsin Press, 1964.

25. ETHNOPOETICS

- BENAMOU, Michel and Jerome Rothenberg, eds. *Ethnopoetics: a first international symposium*. Boston: Boston University Press, 1976.

- DORIA, Charles and Harris Lenowitz. *Origins: creation texts from the ancient Mediterranean*. Garden City: Anchor Books, 1976.
- DUNCAN, Robert. "Ideas of the meaning of form." In Donald M. Allen and Warren Tallman, *The poetics of the new American poetry*, 195-211. New York: Grove Press, Inc., 1973.
- ESHLEMAN, Clayton. *A CATERPILLAR anthology*. Garden City, NY: Anchor Books, 1971.
- GOODMAN, Steven D. "Ocean woman who already knows." *Alcheringa: Ethno-poetics* 3.2:52-54, 1977.
- GROSSINGER, Richard and Lindy Hough, eds. *Io/4 (Alchemy Issue)*. Berkeley: Book People, 1973.
- HYMES, Dell. "Discovering oral performance." *New literary history* 8:431-57, 1977.
- HYMES, Dell. "Directions in (ethno-) linguistic theory." In A. Kimball Romney and Roy G. d'Andrade, eds. *Transcultural studies in cognition*. Special publication of *American Anthropologist* 66.3:6-56, 1964.
- HYMES, Dell. *In vain I tried to tell you*. Philadelphia: University of Pennsylvania Press, 1981.
- HYMES, Dell. "Some North Pacific Coast poems: a problem in anthropological philology." *American Anthropologist* 67:316-339, 1965. Reprinted in Jerome Rothenberg and Diane Rothenberg, eds. *Symposium of the whole: a range of discourse toward an ethnopoetics*, 343-66. Berkeley: University of California Press, 1983.
- MCALESTER, David P. "The tenth horse song of Frank Mitchell: translation and comments." In George Quasha, ed. *Stony Brook* 3-4:306-15, 1969. Reprinted in Jerome Rothenberg and Diane Rothenberg, eds. *Symposium of the whole: a range of discourse toward an ethnopoetics*, 393-98. Berkeley: University of California Press, 1983.
- NGAL, N. "Literary creation in oral civilizations." *New literary history* 8:335-44, 1977.
- ONG, Walter J. *Orality and literacy. The technologizing of the word*. London: Routledge, 1982.
- PAUL, Sherman. *In search of the primitive: rereading David Antin, Jerome Rothenberg, and Gary Snyder*. Baton Rouge: Louisiana State University Press, 1986.

- QUASHA, George, ed. *Active anthology*. Fremont, MI: Sumac Press, 1974.
- QUASHA, George. "Dialogos: between the written and the oral in contemporary poetry." *New Literary History* 8:485-506, 1977. Reprinted in Jerome Rothenberg and Diane Rothenberg, eds. *Symposium of the whole: a range of discourse toward an ethnopoetics*, 461-74. Berkeley: University of California Press, 1983.
- ROTHENBERG, Jerome. *PRE-FACES & other writings*. New York: New Directions, 1981.
- ROTHENBERG, Jerome, ed. *Shaking the pumpkin: traditional poetry of the Indian North Americas*. Garden City: Doubleday & Company, Inc., 1972.
- ROTHENBERG, Jerome, ed. *Technicians of the sacred*. New York: Doubleday & Company, Inc. 1968.
- ROTHENBERG, Jerome. "Total translation: an experiment in the presentation of American Indian poetry." In Jerome Rothenberg. *PRE-FACES & other writings*, 76-92. New York: New Directions, 1982. Reprinted in Jerome Rothenberg and Diane Rothenberg, eds. *Symposium of the whole: a range of discourse toward an ethnopoetics*, 381-93. Berkeley: University of California Press, 1983.
- ROTHENBERG, Jerome and Harris Lenowitz. *Exiled in the world: poems and other visions of the Jews from tribal times to present*. Port Townsend, WA: Copper Canyon Press, 1989.
- ROTHENBERG, Jerome and Diane Rothenberg, eds. *Symposium of the whole: a range of discourse toward an ethnopoetics*. Berkeley: University of California Press, 1983.
- SNYDER, Gary. *Earth house hold*. New York: New Directions, 1969.
- TEDLOCK, Dennis. *Finding the center: narrative poems of the Zuni Indians*. New York: Dial Press, 1972.
- TEDLOCK, Dennis. "Towards an oral poetics." *New literary history* 8:507-20, 1977.
- TEDLOCK, Dennis and Jerome Rothenberg, eds. *Alcheringa: ethnopoetics*. Boston: Boston University, 1970-80.
- TURNER, Victor. "A review of *Ethnopoetics*." *Boundary 2* 6.2:583-90, 1978. Reprinted in Jerome Rothenberg and Diane Rothenberg, eds. *Symposium of the whole: a range of discourse toward an ethnopoetics*, 337-42. Berkeley:

University of California Press, 1983.

ZUMTHOR, Paul. *Oral poetry: an introduction*. Kathryn Murphy-Judy, trans. Theory and History of Literature 70. Minneapolis: University of Minnesota Press, 1990.

26. ODDS AND ENDS

DENLINGER, Paul B. "Tibetan and Mon-Khmer: a short communication." In Andrew Gonzales and David Thomas, eds. *Linguistics across continents: studies in honor of Richard S. Pittman*, 145-46. Linguistic Society of the Phillipines Monograph Series 11. Manila: Summer Institute of Linguistics and Linguistic Society of the Phillipines, 1981.

EDGAR, J. Huston. "Sumerian and Tibetan equivalents." *Journal of the West China Border Research Society* 5:66-7, 1932.

MILLER, Roy Andrew. "Is Tibetan genetically related to Japanese?" *Proceedings of the Csoma de Körös Memorial Symposium*, 295-312. Bibliographia Orientalis Hungarica 23. Budapest: Akadémiai Kiadó, 1978.

SCHUHMACHER, W.W. "Basque and the other Dene-Caucasian languages." *Le langage et l'homme* 24:262-63, 1989.

SHAFFER, Robert. "Athapaskan and Sino-Tibetan." *International Journal of American Linguistics* 18:12-19, 1952.

SHAFFER, Robert. "A few more Athapaskan and Sino-Tibetan comparisons." *International Journal of American Linguistics* 35:1-67, 1969.

SHAFFER, Robert. "Note on Athapaskan and Sino-Tibetan." *International Journal of American Linguistics* 23:116-17, 1957.

SHAFFER, Robert. "Some Uto-Aztec and Sino-Tibetan comparisons." *Orbis* 13:104-9, 1964.

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