From Modal Particle to Interrogative Marker: A Study of German *denn*

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0. Introduction

The German particle *denn* (from Old High German temporal *thanne*, "then", and related to Engl. *then* and German *dann*, "then") is either a conjunctive or a so-called modal particle (MP), occasionally also called "discourse particle". Only the latter use will be of interest here. *Denn* as an MP is in its core occurrences confined to root V1-questions and V2 wh-questions. Its occurrence in clauses of that type is optional. Its occurrence roughly signals that the speaker is concerned about the answer that his or her question will elicit. The Bavarian dialects which will be in the focus of the final part of this article do not employ the lexical element *denn* but rather the clitic form *-n* (which appears to be related to *denn*). This clitic element is interesting as it combines two remarkable properties that distinguish it from *denn*. Section 1 explains the discourse function of *denn*. Section 2, the central part, introduces the syntax of *denn*. Section 3 turns to the fate of *denn* in Bavarian. A conclusion is given in section 4.

1. The discourse relevance of German *denn*

In its function as an MP, the German particle *denn* occurs in root questions as in (1) and (2) where it gives rise to an attitude of wondering on the side of the speaker.

(1) <u>Disjunctive question (V1)</u>

Hat dich denn Dr. Schreck angerufen? has you PRT Dr. Schreck called "Did Dr. Schreck call you? (I am wondering)"

(2) Constituent question (V2)

Wer hat dich denn angerufen? who has you PRT telephoned "Who called you? (I am wondering)"

MPs like *denn* have "expressive" rather than "descriptive" meaning. ¹ König (1977), Wegener (2002) and Grosz (2005) emphasize the addressee's knowledge to which *denn* signals a relation. According to König and Wegener, *denn* is inappropriate if the question opens a discourse out of the blue. ² The deeper reason for this may, however, be that there is no common knowledge background to which a true answer could relate. For instance, an administration officer whose sole job it is to write down some individual's address can hardly felicitously ask *Wo wohnen Sie denn?* ("Where do you live, I am wondering?"). The officer is not concerned as there is no (or perhaps too weak a) common ground that could be updated by a true answer to these questions. Let me propose the pragmatic condition in (3).

(3) [denn α] is appropriate in a context c if (i) α is a question, and (ii) the expected true answer p updates the common knowledge K_c of speaker and addressee in such a way that p is relevant to the knowledge K'_c of the speaker.

The relevance requirement implies that the speaker is CONCERNED about the answer as it relates to his/her contextually given knowledge in a way that matters for him/her in one way or another.³ In the syntactic account of *denn*

¹ For recent suggestions as how to account for the meaning of MPs cf. Kratzer (1999) and following her Grosz (2005).

² König's example: A wakes up his wife and askes *Wie spät ist es denn?* (How late is it DENN?) According to him is inappropriate because the addressee lacks a context in which to interpret the question. It is appropriate if the wife asks A the same question because A can be supposed to have a context that specifies the actual time.

³ One may object that *denn* may also appear in non-information-seeking interrogatives, e.g.

to follow in section 2, I will encode the anaphoric link that *denn* supplies a question with by means of the feature <conc> for "concern".⁴ (3) predicts that *denn* is confined to root clauses because only root clauses make indexical reference to the speaker via the highest layer of the split-CP domain that is known as the force projection. We shall see whether this prediction has to be modified or not.

The context dependency of *denn* which is captured in (3) agrees well with Behaghel's (1923-1928) observation – referred to by Dittmann (1980) and Wegener (2002) – that *denn* has an anaphoric meaning due to its origin from OHG *thanne*. *Thanne* refers to previously mentioned or situationally recovered circumstances as seen in the following examples.

- (4) a. Ther púzz ist filu díofer, war nimist thu thánne ubar tház the well is much deeper where take you then over the wazar flíazzantaaz [Otfried II, 14, 29f.]

 water running

 "The well is very deep, so where will you then take running water?"
 - b. Thiu óugun sie imo búntun [...] joh frágetun ginúagi, the eyes they him bound and asked forcefully wér inan thanne slúagi [Otfried IV, 19, 73f.] who him then beat "They covered his eyes and asked him who then beat him"

Although the current use of *denn* does in many cases not allow an anaphoric interpretation as concrete as *thanne*, there seems to be a more abstract residue of this usage by which the speaker signals that the question is situationally anchored in what he/she takes to be the situationally given common ground.

- (i) Bist du denn wahnsinnig? are you DENN crazy
 "You are crazy!"
- (ii) Wie siehst du denn aus?

 how look you DENN out
 "You look weird!"

What is special here is the question, however, not the contribution of *denn*. While the speaker implies that the addressee is crazy or looks weird he/she nevertheless expects an update – typically some explanation – which matters for his/her contextually determined knowledge.

⁴ Thurmair (1989:200) suggests a somewhat similar featur, KONNEX, to characterize the clause-linking function of *denn*.

Both examples in (4) are also relevant for the root/non-root distinction; *thanne* in (4a) is part of a direct question, but part of an indirect question in (4b). It is important to see that the matrix verb is a *verbum dicendi* and can as such license certain root-properties in the subordinate clause. In contemporary German, the MP *denn* may arise in such a context as seen in (5b) but not in the propositional attitude context in (5c).

- (5) a. Warum ist denn der Klaus so blass?

 why is PRT the Klaus so pale
 "Why is Klaus so pale? (I am wondering)"
 - b. Christine fragte, warum der Klaus denn so blass ist Christine asked why the Klaus PRT so pale is
 - c. *Christine weiß, warum der Klaus denn so blass ist Christine knows why the Klaus PRT so pale is

In (5b) the mental attitude of being concerned/wondering is ascribed to Christine and not to the speaker.⁵

2. The syntax of *denn*

In this section it will be shown that *denn* precedes high discourse oriented adverbs and also occupies the highest position in the hierarchy of MPs. We will then provide arguments for the place of *denn* in clause structure. Finally cases will be considered in which *denn*, contrary to expectation, appears in embedded clauses.

2.1 Hierarchy

Following the lead of Cinque (1999) for the ordering of adverbs, one can show that *denn* precedes the adverbs which figure as the highest in Cinque's

are perfectly normal. (3) is compatible with such a case because speaker and addressee may be identical.

⁵ Cf. Doherty (1985: 76f.). Doherty argues that *denn* cannot be used in self-directed questions because it relates to the attitude of an interlocutor. I disagree with her intuition. Monologous questions such as

⁽i) Wo habe ich denn meine Brille hingelegt?

[&]quot;Where did I put my glasses (I am wondering)?

hierarchy.⁶ For instance, *schließlich* (finally), *zum Glück* (fortunately), and *schlauerweise* (intelligently), *dummerweise* (stupidly) belong to the higher adverbs which would qualify. As the following examples show, they can never precede *denn*.

- (6) a. Bist du denn schließlich ans Ziel gekommen? are you PRT finally at-the goal come "Did you finally reach the goal? (I am wondering)"
 - b. *Bist du schließlich denn ans Ziel gekommen?
- (7) a. Hat der Hans denn schlauerweise die Heizung zurückgeschaltet? has the Hans PRT cleverly the heating back-switched Did Hans cleverly reduce the heating? (I am wondering)"
 - b. *Hat der Hans schlauerweise denn die Heizung zurückgeschaltet?
- (8) a. Wer ist denn schließlich ans Ziel gekommen? who is PRT finally at-the goal come "Who reached the goal finally? (I am wondering)"
 - b. *Wer ist schließlich denn ans Ziel gekommen?
- (9) a. Wer hat sich denn zum Glück gemeldet? who has REF PRT to-the luck responded "Who has luckily responded? (I am wondering)"
 - b. *Wer hat sich zum Glück denn gemeldet?

An exception to which we will turn shortly seem to be adverbs of time and space such as *gestern* (yesterday), *heute* (today), *damals* (in those days), *hier* (here), *dort* (there) etc.

(10) Hat mich (gestern) denn (gestern) jemand anrufen wollen? has me (yesterday) DENN (yesterday) someone call wanted "Did someone want to call me yesterday (I am wondering)?"

As Thurmair (1989), Abraham (2000), Coniglio (2005) and Grosz (2005) show, MPs are hierarchically ordered, similarly to the order of adverbs that has been found by Cinque. In (11) I confine myself to disjunctive questions.

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⁶ For detailed discussion cf. Coniglio (2005) and Grosz (2005)

(11) a. Hast du denn eigentlich schon was gegessen? have you DENN EIGENTLICh already something eaten (*eigentlich < denn)

- b. Könnte er denn vielleicht in Rom sein? could he DENN VIELLEICHT in Rome be (*vielleicht < denn)
- c. Hast du denn etwa wieder Kopfschmerzen? have you DENN ETWA again headache (*etwa < denn)
- d. Seid ihr denn auch nach Caorle gefahren? did you DENN AUCH to Caorle drive (*auch < denn)

The MPs which figure in constituent questions are partially different but it is equally true that *denn* precedes all of them. As Coniglio (2005: 110ff) points out, the lower MPs can precede high adverbs such as *vermutlich* (presumably) but can also appear in interspersed position as long as their intrinsic order is retained. With respect to *denn*, this yields roughly the hierarchy in (12) where we refer to the complementary class of MPs with the ad hoc feature [-*denn*].

(12) The position of *denn* in the hierarchy of MPs and adverbs 7 (ADV_{time/space}) > *denn* > MP_{-denn} > ADV > MP_{-denn}

2.2 Clause structure

There is controversy about the X'-status of MPs to which I cannot do justice here for reasons of space. Tests of leftward/rightward movement, (non-) projection, coordination, focusing etc. suggest that MPs are functional heads. Various researchers nevertheless argue that MPs are XPs in the specifier of an empty head, albeit "degenerate" XPs. A complicating factor is that MPs do not have totally homogeneous syntactic properties. For instance, *denn*, unlike other MPs, can turn into a clitic (see section 3). It has also been argued that MPs cannot be heads because these heads would inhibit V-movement to the C°/Fin°-position. This argument which applies

⁷ Cf. Grosz (2005 : 2.4.3) for further discussion.

⁸ Cf. relevant discussions in Bayer (1991), Meibauer (1994), Coniglio (2005), Grosz (2005) and Cardinaletti (2007) among others.

equally to negation is, of course, theory-dependent. Empirically it appears to be problematic to deny head status to the standard negator *nicht* which in dialects with negative concord appears to be a head in whose specifier a negative quantifier has to move in order to check off its neg-feature. Negation does not interfere with V-to-C movement. It seems to be feasible to modify Relativized Minimality in such a way that the verb (or rather, its finfeatures) will skip certain medial head positions. On the basis of these considerations, I would prefer analyzing *denn* as a functional head which projects a particle phrase (PrtP) by taking VP or its "extension" (VP^{ext}) where VP^{ext} may be MoodP, ModP, AspP in Cinque's sense or another PrtP.

(13) $[P_{rtP} [P_{rt^{\circ}} denn] [VP^{(ext)}]]$

The space between *denn* and the raised finite verb (which I take to head a FinP) can remain empty or can be filled by topical constituents which embrace the sentence topic (what the sentence is "about") but also discourse referents which have been established by previous discourse.

- (14) a. Hat denn der Hans den Hund gefüttert? has DENN the Hans the dog fed "Did Hans feed the dog?"
 - b. Hat der Hans denn der Hans den Hund gefüttert?
 - c. Hat der Hans den Hund denn der Hans den Hund gefüttert?

Since adverbs of time and space, so-called "stage setting" adverbs, are potential topics, while mood-, mod-, asp-adverbs are generally not, we understand the distribution of the data in (10) and (11). ¹¹ NPs and DPs which do not qualify as topics – rhematic indefinites and quantifiers – are excluded from the topic field.

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⁹ Cf. Bavarian

⁽i) Er hod [NegP koa Schneid [Neg' ned g'habt]]

he had no courage not had "He was not courageous"

¹⁰ Grosz (2005) argues that German MPs must be in a spec-position in order to allow the verb to move via the empty head position. His proposal follows one of Cinque's (1999) motivations to suggest such an architecture for adverbs. The argument overlooks the fact that in Italian the verb (in fact the participle) can land in intermediate positions while nothing of that sort can be observed in German.

¹¹ Cf. Frey & Pittner (1998: note 35, p. 532).

(15) a. Hat denn in Venedig {jeder / keiner } einen Hund? has DENN in Venice everybody nobody a dog "Does {everybody/nobody} in Venice have a dog?"

b. *Hat {jeder / keiner} denn in Venedig {jeder / keiner} einen Hund?

Indefinites which move higher than *denn* have a generic interpretation, in agreement with Diesing (1992), and then constitute potential topics. Pronouns can hardly remain to the right of *denn*. When they do they are normally accented, i.e. strong. While accented strong pronouns may appear to the left of *denn* as contrastive topics, weak and clitic pronouns as seen in (16b) must move up.

- (16) a. Hat {mich/MICH} denn {??mich/MICH} jemand sprechen wollen?

 has me DENN me someone speak wanted

 "Did someone want to talk to me?"
 - b. Hat {es / 's } denn {*es / *'s } jemanden interessiert?

 has it DENN it someone interested

 "Did someone take an interest in it?"

I conclude that part of German clause structure is as in (17).

Given that *denn* is a root phenomenon, the question is how to associate its feature <conc> with the clausal left periphery, in particular with the layer of illocutionary force. For German V1/V2 clauses one can assume that the finite verb that raises to Fin° activates force right there so that no further projection must be added. Assume that *denn* has an unvalued Interr(ogative)-feature which is valued by the finite verb in Fin°/Force° via a probe/goal relation as proposed in Chomsky (2001) and subsequent work. As we have shown in section 1, *denn* endows the interrogative with the feature <conc>. The finite verb in Fin°/Force° is not specified for <conc>. Due to feature maximization, alias "Free Ride" (Chomsky, 1995), it inherits this

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¹² This goes back to Wechsler's (1991) analysis of V2 in Swedish and the development of his idea for German in Bayer (2004). Force is activated by V-raising to Fin° but in an underspecified form. The distinction of declarative, imperative, interrogative mood (with the formal distinction between disjunctive and wh-questions) etc. is a matter of further tuning the elementary distinctions of which may be achieved via spec-head agreement.

feature as an automatic consequence of Interr-feature valuation.¹³ Assuming that <conc> can only be interpreted in the force projection of the clause, the feature must delete at the foot of the chain.

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(18) a. [FinP/ForceP ... Fin°/Force°<Interr> [PrtP denn<uInterr, conc> (...) [VP ...]]]]

AGREE 

b. [FinP/ForceP ... Fin°/Force°<Interr, conc> [PrtP denn<uInterr, eone> (...) [VP ...]]]]
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2.3 Distant denn

We have so far assumed that *denn* appears exclusively in the root clause. As the following data from the internet (to which structural information about wh-extraction has been added) show, this assumption must be modified.

- (19) a. Wie denkst Du, dass es denn wie weitergehen soll mit euch?

 http://mein-kummerkasten.de/142829/fremdgehen.html

 "How do you think that the two of you can carry on?"
 - b. Welches Bild glaubst du dass er denn welches Bild von mir haben könnte?

 $http://www.marsvenus.de/search.php?search_author = Lola\&sid = 0 fe 369 fa f 60 cc f d 8 c 76 ee e 167638 b 51 f$

"Which picture do you believe that he could have of me?"

As the following equally grammatical examples show, neither depth of embedding nor the exact placement of *denn* seems to play a role as long as cyclic wh-movement passes *denn*.

- (20) a. Wohin glaubst du denn, wohin dass der Hans wohin gefahren ist? where believe you DENN where that the Hans where driven is "Where do you belive that Hans went?"
 - b. Wohin glaubst du, wohin dass der Hans denn wohin gefahren ist?
 - c. Wohin glaubst du, wohin dass Paula meint, wohin dass der Hans denn wohin gefahren ist?
 - d. Wohin glaubst du, wohin dass Paula denn meint, wohin dass der Hans wohin gefahren ist?

¹³ For an application of this mechanism in the domain of PPs see Bayer & Bader (2007).

Putting aside embedded interrogative clauses with quasi root properties such as (5b), *denn* is illicit in clauses from which the wh-phrase cannot have been raised. ¹⁴ The following examples show that *denn* cannot raise from islands.

(21) Relative-clause Island

Wer kennt (denn) eine nette Frau, die dem Hans (*denn) helfen könnte? who knows DENN a nice lady who the Hans DENN help could "Who knows a nice lady who could help Hans?"

(22) Adjunct-Island

Warum ist (denn) der Hans, ohne (*denn) einen Führerschein zu haben, why is DENN the Hans without DENN a drivers-license to have Auto gefahren?

car driven

"Why did Hans drive a car without having a drivers license?"

(23) Complex-NP-Constraint

Wer hat (denn) die Behauptung, dass Hans (*denn) bankrott sei, aufgestellt? who has DENN the statement that Hans DENN bankrupt be made "Who made the statement that Hans was bankrupt?"

One could argue that due to subjacency *denn* cannot undergo classical LF-style raising. However, dependent clauses from which movement is potentially possible are equally out as long as no wh-phrase passes through the minimal clause which hosts *denn*.

(24) a. Wer hat dir (denn) erzählt, dass der Hans (*denn) weggefahren ist? who has you DENN told that the Hans DENN left is "Who told you that Hans has left?"

¹⁴ To be precise, it is not wh-movement as such but rather the general class of mechanisms by which the scope of the embedded clause can be extended to the root clause. The following example of partial movement yielded perfect acceptability in a judgment test with 20 speakers.

⁽i) Was glaubst du, wohin der Hans denn gefahren ist? what believe you where the Hans DENN driven is "Where do you believe that Hans went?"

b. Habe ich dir (denn) schon erzählt, dass der Hans (*denn) have I you DENN already told that the Hans DENN weggefahren ist?

left has

"Did I tell you already that Hans has left?"

Denn may physically remain in a domain lower than the one in which it can be interpreted by virtue of a wh-phrase that picks up its feature <conc> and moves it up to the force projection. To implement this, denn must enter an agree relation with the wh-feature of the wh-phrase which meets with <interr> as soon as it reaches SpecForceP. The derivation in (18) makes use of a direct relation between denn and an interrogative force head. What is needed now is an indirect relation between the two which is mediated by the wh-phrase. Setting examples like (5b) aside, we observe that the syntax of German activates <interr> only in conjunction with the force head. This suggests that wh embraces a feature <ainterr> such that a will be set to + in a spec-head agreement relation with the finite verb in Fin°/Force°. Assuming standard concepts of movement as leaving a copy whose operator part is deleted in core syntax, the relevant derivation of (20b) will then proceed as in (25).

- - b. [CP wohin<Wh, conc> dass<Wh> der Hans [PrtP denn<Wh, eone> wohin gefahren ist]]

MERGE ⇒

c. [FinP/ForceP] glaubst<Interr> du [CP] wohin<Wh, conc> dass<Wh> der Hans [PrtP] denn<Wh, conc> wohin gefahren ist]]]

MOVE AND AGREE ⇒

d. [FinP/ForceP Wohin<Wh, Interr, conc> glaubst<Interr> du [CP Wohin<Wh, eone> dass<wh> der Hans [PrtP denn
+Wh eone> wohin gefahren ist]]]

¹⁷ For cases like (5b) I assume that the matrix verb *fragen* ("to ask") selects a CP with the force feature <inter> in C in whose scope *denn* is interpretable.

¹⁵ An earlier proposal in this direction can be found in Hasegawa's (1999) work on exclamatives.

¹⁶ Recall that wh by itself does not license *denn* as shown by (5c).

¹⁸ I consider here only the CP-phase. Involving a *v*P-phase would be a trivial extension.

Cases like (20d) – Wohin glaubst du, dass Paula denn meint, dass der Hans gefahren ist? – follow because wh can pick up the feature <conc> on its way in passing the particle with which it undergoes partial agreement. Wh can, as a stylistically more marked option, also literally pick up denn and move it piggyback outwards as seen in (26).

(26) [Wohin denn] glaubst du, dass der Hans gefahren ist? where DENN believe you that the Hans driven has

It appears that the wh-phrase has moved into a specifier position that is provided by *denn* before moving to the edge of the clause. However, without further assumptions such as movement of VP plus remnant movement of PrtP the independent motivation of which I see lacking, it is unclear how to account for (26).¹⁹

As already said in note 14, *denn* can also remain distant from the root clause in partial movement constructions.

(27) Was glaubst du, wohin der Hans denn gefahren ist? what believe you where the Hans DENN driven has "Where do you belive that Hans went?"

Agreement in the lower CP-phase works as in (25a,b). The difference is that the lower wh-phrase does not move on but is in an agreement/valuation relation with the neutral wh-element was. A natural extension of the movement analysis in (25) would be to say that was deletes the wh-feature of wohin but inherits from it the feature <conc> that wohin as acquired via agreement with denn.

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¹⁹ If *denn* is taken to be an adverb with XP-status it is even less clear how a wh-phrase could adjoin to it and why it would do so.

3. *Denn* in Bavarian

In the Bavarian variant to be discussed now, *denn* does not exist as a full form, but it exists as the enclitic element -n. Bavarian is a language with Wackernagel-style cliticization to Fin° or C°. In agreement with our analysis of Standard German in (17), topical pronouns cliticized to Fin°/C° before -n cliticizes to the clitic complex.

(28) Wann hod -a -s-da -n zoagt? when has-he-it-you-N shown "When did he show it to you?"

Permutations with acceptable phonotactics such *Wann hot-a-s-n-da zo-agt?, *Wann hot-a-n-s- da zoagt? etc. are ungrammatical. N-cliticization arguably turns the particle into part of the Fin/Force-head. The wh-phrase that moves to its specifier is then in a spec-head configuration with the particle. Due to the clitic nature of -n, the distant placement that denn reveals (cf. section 2.3) is absent in Bavarian. However, the clitic element -n is at variance with denn also in two other respects: (A) it is OBLIGATORY in wh-questions. Weiß (2002) provides the following example.

- (29) Wos hosd' *(-n) g'sogd? what have-you -N said "What did you say?"
- (B) it does NOT YIELD THE CONCERN INTERPRETATION in wh-questions. In order to express the concern interpretation, Bavarian uses the non-clitic element *nou* or *no*, derived from nach(her) ("after", "after all", "then") which corresponds to Standard German *denn*. According to my intuitions, this element competes with -n, as can be seen in the following examples where we use the contracted form *homna-n* which unambiguously involves -n and thus circumvents the phonetic problem of misanalysis due to homophonous nasal segments.²¹

The dialect to be described here is my own, spoken in Dietfurt/Altmühl, a Middle to North-Eastern Bavarian variety. Native speaker linguist from more eastern varieties whose judgments I had access to – Hans Altmann, Agnes Kolmer and Helmut Weiß – largely agree with the judgments to follow.

²¹ The underlying form of $1^{st}/3^{rd}$ person plural hom ("have") is as in Standard German haben. If -n cliticizes before haben reduces to hom, haben + n yields habenen due to vocalic epenthesis. Reduc-

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(30) a. Wou hom nou däi g'wohnt? where have NOU they lived "Where did they live (I am wondering)?" b. *Wou homna-n nou däi g'wohnt? where have -N NOU they lived
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Like Standard German denn, no(u) has an unvalued feature $\langle uWh \rangle$ or $\langle uInterr \rangle$ as well as the feature $\langle conc \rangle$. The clitic $\langle n | lacks \langle conc \rangle$. Arguably it has only $\langle uWh \rangle$. Due to its impoverished nature it has turned from an MP into a pure marker of root wh-questions; $\langle n \rangle$ fuses with Fin°/Force° and imports an unvalued wh-feature which must be valued by a wh-phrase. The question is then how to account for the competition between $\langle n \rangle$ and $\langle no(u) \rangle$. By their respective feature structures seen in (31), it is clear that $\langle n \rangle$ is the default case whereas $\langle no(u) \rangle$ is the special case.

(31) a.
$$-n$$
 $< uWh >$ b. $no(u)$ $< uWh >, < conc >$

This situation calls for an account in terms of Kiparksy's (1973) Elsewhere Condition. This condition, which was originally designed as a metric for rule application in generative phonology, says that in a situation of rule competition, a rule R1 which applies to a domain D1 which is a proper subset of a domain D2 prevent the more general rule R2 from applying to D1. In our case this means that insertion of the item which includes the feature $\langle \text{conc} \rangle$ takes precedence because it represents the special case in comparison with insertion of the item which lacks $\langle \text{conc} \rangle$. We derive the contrast in (30) because merger of no(u) bleeds the use of the clitic -n.

It is interesting to see that the diachronic process that has turned -n into a pure wh-question marker has not affected disjunctive questions. Disjunctive questions in the Bavarian variety described here allow but certainly do not require -n, and the semantic contribution of -n is directly felt. (32a), where

tion, in conjunction with syllabification and onset maximization, then yields the unambiguous bisyllabic form *hom.nan*.

-*n* is lacking is fully acceptable, and (32b) is semantically distinct from (32a). ²²

- (32) a. Hom däi aa a Haus?

 have they also a house

 "Do they also have a house?"
 - b. Homna-n däi aa a Haus?

 have -N they also a house

 "Do they also have a house? (I am wondering)"

Both the full form and the clitic form have the same features, a situation which, of course, gives again rise to redundancy if both a merged, but now for the more trivial reason of "repetition".

(33) *Homna-n nou däi aa a Haus? have -N NOU they also a house

4. Conclusion

The preceding study of the German MP *denn* has revealed a number of intricate core syntactic properties which suggest that the study of MPs can enhance our understanding of clause structure. We have shown that *denn* is the highest particle in the hierarchy of German MPs, that it is likely to be a head which projects a particle phrase, that it is licensed in the force projection (utterance level) of the clause while it occurs phonetically below a field of discourse topics or – under certain circumstances – even lower down in a complement clause. We have sketched an account in terms of probe/goal agreement in which the discourse-relevant feature of *denn* is picked up by an interrogative head or – in cyclic wh-movement – by the wh-phrase, with the result that this feature reaches the force layer of clause structure by means of probe/goal agreement. Agreement alone can transport the relevant feature of *denn* in partial movement constructions.

In Bavarian, *denn* appears as the clitic element -n which in wh-clauses is deprived of its special MP-semantics and rather operates like a pure inter-

²² According to Cecilia Poletto (p.c.), a similar distribution is found in particle constructions of Northern Italian dialects.

rogative marker without giving rise to the "concern interpretation". Abraham (1991) identified in the history of German a grammaticalization path of *denn* as in (33).

(34) LOCALISTIC > TEMPORAL > LOGICAL > ILLOCUTIVE / DIS-COURSE FUNCTIONAL

Given the Bavarian data on the role of -n in wh-interrogatives, we may say that this grammaticalization path is prolonged due to further reduction of *denn* toward a simple marker of root wh-questions.

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