Translation Manual for Salamuchas Formalization of the Ex Motu Argument

1 Logical Notation

Name of Operator	Samalamucha first variant	Second variant	„Standard notation“
Conjunction	$p.q$	$p \wedge q$	$p \wedge q$
Disjunction	$p \vee q$	$p \vee q$	$p \vee q$
Negation	$\sim p$	$\sim p$	$\neg p$
(Material) Implication	$p \supset q$	$p \rightarrow q$	$p \rightarrow q$
Biconditional	$p \equiv q$	$p \equiv q$	$p \leftrightarrow q$
Universal Quantifier	$[x].\phi(x)$	$\wedge x\phi(x)$	$\forall x.\phi(x)$
Existential Quantifier	$[\exists x].\phi(x)$	$\vee x\phi(x)$	$\exists x.\phi(x)$

2 Definitions of relations, predicates, etc.

Notation	Name/Description	Definition
xRy	Relation (at first!)	the usual
$C'R$	Set of all elements of a relation	$x \in C'R \Leftrightarrow \exists t.(tRx \vee xRt)$
$K(R)$	Ordering relation	transitive, irreflexive, connected relation
fx	x is in motion	-
xRy	x moves y	-
$M_x(a)$ or aMx	a is the proper part of x [sic]	-
xA_sy	x is in aspect S *in actu* to y [emph. orig.]	-
Cx	x is a body	-
$t_iFx\ t_i$	t_i is the duration of movement of x [sic]	-
$F(t_i)$ or Ht_i	t_i is the finite period of time [sic]	-