# The Coptic er-Jan Conditional as a 'CERTAINTY' Conditional

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#### 1 Introduction

In much literature on the topic, the conference theme "Tense and Aspect in Conditionals" is broadly understood in terms of the repercussions that tense and aspect marking in the protasis (antecedent) clause have on the semantic interpretation of the conditional sentence construction. The explorative study presented here goes in the opposite direction, exploring the interpretative effects that verbal tense, aspect and mood marking in the apodosis (antecedent) clause have on the semantic interpretation of the protasis clause, which is not specified for any of these values.

The empirical domain of our case-study is the grammar of conditional constructions in Coptic, which is perhaps one of the most complex areas of the syntax–semantics interface. Coptic (Ancient Egyptian [Afroasiatic], ca.  $3^{rd}$ – $12^{th}$  c. CE) stands out crosslinguistically in possessing a specialized conjugation pattern that is syntactically restricted to the protasis clause of a bi- or multiclausal conditional construction. The **er-fan** conditionals is a compound tense, which is composed an initial relativizer **ere/e=** and a morphologically invariant conjugation base **fan**. There is no corresponding simplex form without the initial relativizer and just the conditional auxiliary element **fan**. The complete inflectional paradigm of the **er-fan** conditional is presented in the in the below table. (The triconsonantal verb **sortəm** 'to hear' ( $\sqrt{s-T-M}$ ) illustrates a typical paradigm.)

1SG	e=ï	∫an	soːtəm	1pl	e=n	∫an	soːtəm
2SG.M	e=k	∫an	soɪtəm	2pl	e=tetən	∫an	soːtəm
2SG.F	er-	∫an	soːtəm				
3SG.M	e=f	∫an	soːtəm	3pl	e=ux	∫an	soɪtəm
3SG.F	e=f	∫an	soːtəm			∫an	soɪtəm
Before full NP	er	∫an	NP sortəm				

TABLE 1. The inflectional paradigm of the er-fan conditional conjugation

The Coptic **er-fan** conditional belongs to a group of so-called "clause conjugations", which cannot occur as an independent clause and which rely for their temporal, aspectual and modal specification on the fully specified main clause they are in construction with (Polotsky 1960). In view of the fact that Coptic **er-fan** conditionals lack independent tense, aspect and mood marking, the question raised by Funk (1985), Kaufmann (2005), and many others, whether verbal

tense and aspect are interpreted differently in protasis clause than in other syntactic environments simply does not arise.

This does not mean that the interpretation of Coptic **er-ʃan** conditionals is unpredictable and at random. In the Coptic descriptive tradition, it has long been observed that **er-ʃan** conditionals have modal condition and consequence (IF–THEN) as well as temporal-order (WHEN) interpretations, which hang together in a complex fashion. We take the modal interpretation to be the "stronger" reading, as it posits a causal or at least co-dependent relationship the situation reported in the protasis clause and the situation reported in the apodosis clause. By the same token, the temporal (WHEN) interpretation is the "weaker" reading, as it only asserts a temporal precedence relation between the protasis and the apodosis situation. A garden-variety example for the stronger modal reading is shown below. The faith of the female interlocutor is presented as the *conditio sine qua non* for the perception of God's glory.

(1) Modal interpretation of  $er-\int an$  conditional with and a podosis

erfan Ø pisteue te= na nau e-p-eou believe.ABS COND (=CL.2.F.SG)CL.2.F.SG=PREP-DEF.M.SG-glory REL-FUT see.ABS əm=pə-nute LINK=DEF.M.SG-God "If you (woman) believe, you will see the glory of God." (John 11:40, ed. Quecke)

The IF-THEN schema of condition and consequence does not come out of nowhere but arises as a consequence of the verbal tense selected in the apodosis clause. We will present evidence and arguments that the combination of er-fan protasis and epistemic future **na** apodosis clause contributes a certainity component to the denotation of the conditional sentence as a whole (Kaufmann 2005). We refer to this modal-evidential component as CERTAINTY conditionality and attempt to show that it goes beyond predictivity and realis or fulfillable conditionals.

The semantically weaker, temporal link amounts to a temporal contingency between the protasis event and the apodosis event. This is the most salient reading of  $er-\int an$  conditionals with habitual aspect apodosis clauses. The habitual aspect auxiliary  $\int are/\int a=$  describes the plurality of actions and generalizable patterns of events. We will insist on defining the habitual as a pluractional aspect and not as a tense, since it combines with the preterit auxiliary **ne** to express a general pattern of events in the past. Accordingly, present and past tense reference are not part of its core grammatical meaning.

(2)Temporal interpretation of er-fan conditionals with habitual aspect apodosis ∫an e-ſlɛl =stoːwən ne ∫a ∫lɛl e =sCOND raise.ABS to-pray.ABS PRET pray.ABS REL =CL.3F.SG HAB =CL.3F.SGnəmma=s with=CL.3F.SG "When(ever) she (Hilaria) rose to pray, he used to pray with her (sister)." (Hilaria 9:12, ed. Drescher)

In the absence of information to the contrary, the past habitual **ne**  $\int are / \int a =$  entails that general pattern of events no longer holds at the moment of speaking. We call this the "life time effects". Bearing in mind that statement about past habits are in principle verifiable, we arrive at an understanding as to why **er-fan** conditionals with past **ne**  $\int are / \int a =$  habitual apodoses can only be interpreted temporally to the exclusion of cause-effect relations.

The stronger modal and the weaker temporal reading are sometimes difficult to tear apart. This has led to the traditional contention that the conjugation base  $\int an$  itself is semantically ambiguous. For this reason, or so runs the argument, one must resort to conditional and temporal connectors for disambiguation purposes (Funk 1985: 412 note 70; Layton 2000: 272–273 §346). We will argue for a view to the contrary, according to which polysemy does not entail that the grammatical pattern in question is semantically ambiguous. The multifaceted meanings of Coptic **er-fan** conditionals can be unified by subsuming them under CERTAINTY conditionality. But one has to be careful that CERTAINTY conditionality has two sources—one that derives from the certainty implicatures of the epistemic future and another that derives from the verifiability of a general pattern of events that is germane to the semantics of habitual aspect.

## 2 The modal reading of er-fan conditionals with epistemic future tense apodoses

Coptic has two morphologically and syntactically distinctive future tenses. One is the epistemic future tense **f=na soltəm** 'he will hear' and the other is the deontic future tense **e=f e-soltəm** 'he must/should/is to hear'. This section is about the interpretative effects of epistemic future **na** apodoses. As an aside, the epistemic future tense marker **na** has diachronically been derived from a Late Egyptian and Demotic andative ('GOING TO') construction, which is formed with the deictic motion verb **nSy** 'to go' (double-weak:  $\sqrt{n-S-y}$ ) and an infinitive clause.

There is no evidence for an underlying biclausal configuration of the epistemic future tense **na**. The monoclausal structure SUBJECT > AUXILIARY > VERB of epistemic future tense sentences is exemplified below. In spite of its andative origins, the epistemic future indicates movement away from the deictic center, but does not further specify the nearness or remoteness of the event in question. In brief, it is neither a nearby future nor a futurate present (Reintges 2011: 80–83; 2018 [2004]: 265–267 §7.3.3.3). The Last Judgement is ascertained to come about but the precise time of its occurrence is left open.

(3)	The epistemic future tense auxiliary <b>na</b>											
	Subject Auxiliary Main Verb Direct Object											
	pə–t <sup>₁</sup> ɔi̯s	na	ən–nə–laos									
	DEF.M.SG-lord	FUT	PREP-DEF.PL-people									
	"The Lord will judge the nations." (Psalm 7:8, ed. Budge)											

The IF-THEN schema of condition and consequence emerges as the most salient reading of  $er-\int an$  conditionals with epistemic future **na** apodoses. The inferential component of this particular protasis-apodosis configuration is particularly transparent in the context of complex deductive argumentation involving two premises. The first premise is expressed by an identificational nominal sentence, in which the subject expression and the nominal predicate are predicatively

related to each other by means of a demonstrative copula pronoun. The second premise is expressed by the  $er-\int an$  protasis clause, which resumes the identificational nominal predicate. The future tense **na** apodosis expresses the logical consequence (inference)

Example (4) illustrates the tripartite structure of this hypothetical syllogism. In the initial identificational nominal sentence, the speaker (Jesus Christ) identifies himself with the living bread from heaven. In the subsequent protasis clause  $er-\int an wa wom$  'If someone eats from', the nominal predicate p-3ik 'the bread' is resumed in the locative partitive phrase  $e\beta 3lh m$  pei-3ik 'out from this bread'. The epistemic future apodosis f=na ? $\alpha nah \int a-eneh$  'he will life forever' asserts that since the heavenly bread is identified with the Savior, the eating of it guarantees eternal life. It provides the logical conclusion of the two antecedent premises.

(4) er-fan protasis with epistemic future tense na apodosis in deductive argumentation

?anok		pe	p–c	σïk	[ <sub>RC</sub> et	?əːnəh	[ <sub>RC</sub> ent	?a	=f	
INDEP.PRO	n.1sg	COP.M	I.SG DEF	.M.SG-bread	REL	live.STAT	REL	PERF	=CL.3M.SG	
eį	eβ:	ol h	ən tə–	pe ]						
come.ABS	PCL	fr	om DEF	.F.SG-heaven						
er–	∫an	wa	wom	eβɔl	həm	peï–ɔïk				
REL— C	COND	one	eat.ABS	PCL	from	DEM.M.SG-	bread			
f=	na	?	oːnəh	∫a	eneh					
CL.3M.SG=	FUT	' li	ve.ABS	until	forever					
"I (am) tł	he livin	"I (am) the living bread which came from heaven. If someone eats from this bread, he will								

live forever." (John 6:51, ed. Quecke)

Under the salient modal interpretation, er-fan conditionals with epistemic future **na** apodoses are commonly interpreted in terms of a cause–effect relation. CERTAINTY conditionality pertains to the predictability of the causal relationship itself, whereby one event will inevitably lead to another event. This point is illustrated in example (5), which has a somewhat surreal flavor. Before his entrance into Jerusalem, Jesus is requested by the Pharisees to silence his disciples and the people in their entourage, who praise him as the Messiah. He countenances this move by asserting that the appraisal is appropriate. If the disciples and the crowd were to be silenced, it will so happen that inanimate stones fill the void.

(5) er-fan protasis with epistemic future tense na apodosis denoting causal relationship neï-?oIne t¹i er– fan naï ka ro<sub>z=u</sub> na COND DEM.PL-stone REL-DEM.PRON.PL leave.cs mouth=POSS.3PL FUT take.cs ſkak eßol cry PCL "If these (disciples) (here) are silenced, these stones (here) will cry out." (Luke 19:40, ed. Quecke)

First person singular futures are known to convey a promissive illocution, whereby the speaker is the agent of the anticipated action and takes responsibility for its actualization. In the context of a pledge or oath, the speaker deliberately diminishes her own agency and transfers it to a supernatural authority, making it dependent on that authority's approval. As shown by example (6) below, this rhetorical move does not depart too much from the IF-THEN schema of er-fan conditionals with epistemic future tense **na** apodosis clauses.

(6)er-fan protasis with promissive 1<sup>st</sup> pers. sing. epistemic future tense na apodosis etβe pai er-∫an pə-nute ka?at permit.cs.1sg for DEM.M.SG REL-COND DEF.M.SG-God ti= na hor ero=i e =i 31 CL.1SG=EPIST.FUT satisfy.ABS PREP=CL.1SG =CL.1SG do.STAT REL ən– heigeimon 23 əm– matoi soldier ingeneral or in-"Because of this, if God allows me, I will satisfy myself being a general or a soldier." (Shenoute I.1 38:6–7, ed. Amélineau)

Since Kiparsky and Kiparsky (1970), it is generally assumed that BELIEVE verbs are the type of factive verbs that entail the truth of the embedded proposition. Example (7) is an instance of an embedded  $\text{er-}\int an$  conditional with epistemic future tense **na** apodosis. The embedding verb is the Greek borrowed BELIEVE verb **pisteue**. The point to be observed here is that CERTAINTY conditionality goes hand in hand with the factive reading inherent to matrix BELIEVE verbs. In the case at hand, the certainty is about the spiritual benefits occasioned by the prospective visit of the venerable monk.

(7) **er-Jan** protasis with epistemic future tense **na** apodosis in complement clause of the Greek BELIEVE verb **pisteue** 

?awor ti= pisteue [t<sup>∫</sup>e =fſan eï ∫arɔ=n e and CL.1SG=believe.ABS COMP REL =CL.3M.SG COND come.ABS to=CL.1PL tən= na kjen heu ter=n hitən ne=f-[lel]DEF.PL=POSS.3PL-prayer CL.1PL= FUT find.cs gain all=POSS.1PL through "And I believe that if he (the venerable monk) comes, we will all profit from his prayers." (Hilaria 10:30–31, ed. Drescher)

CERTAINTY conditionality is not restricted to assertions but may also carry over to interrogative speech acts. As Kaufmann (2005: 251) pointed out, certainty pertains to the "presumption of decidedness". The speaker/questioner presupposes that the question is already settled and that her addressee/answerer can provide the elicited piece of information.

To see this more clearly, consider another case of complex deductive argumentation with two premises. The first premise is the identificational nominal sentence 'you (are) the salt of the earth'. The second one is represented by the er-fan protasis 'If the salt gets insipid'. The apodosis clause is formulated as a constituent question 'with what will they make it salty?' and contains, as may be expected by now, the epistemic future tense **na**. As an aside, Coptic is a wh-in-situ language in which the questioned constituent appears in a clause-internal position. Accordingly, the instrumental wh-phrase **ən-ux** 'with what' in the apodosis clause appears in the canonical sentence-final position of adverbial modifiers.

(8)  $er-\int an$  protasis with constituent question epistemic future tense na apodosis

ənto:tən pe		pe-hmux		əm=pə–kah						
INDEP.PRON.2PL COP		COP.M.SG	DEF.M.SG-salt		LINI	LINK=DEF.M.SG-earth				
er– ∫	∫an	pe-hmu:	de	ßarße		e	=u <b>x</b>	na	malh=f	
REL- C	COND	DEF.M.SG-salt	PCL	insipid.	ABS	REL	=CL.3PL	FUT	salt.CS=CL.3M.SG	
ən–uː										
with-what "You (are) the salt of the earth. If the salt gets insipid, with what will they make it salty (with what will it he made calts)?" (Matthew 5.2, ed. Deleatri)										

Two observations are worth noting. First, the interrogative scope of the wh-phrase  $\exists n-ux$  'with what' extends only to the apodosis clause, leaving the **er-fan** protasis clause out of its scope. The **er-fan** conditional is interpreted as having declarative illocutionary force. Second, the wh-question has a rhetorical flavor, as it is common knowledge that there is no way in which tasteless salt can be made spicy again. Accordingly, the declarative counterpart of the instrumental wh-phrase  $\exists n-ux$  'with what' would be a negative indefinite 'nothing'.

### **3** The temporal reading of er-fan conditionals with habitual aspect apodoses

There is another route that CERTAINTY conditionality can be arrived at and this is by pluralizing apodosis events. The way to do this is by selecting habitual aspect auxiliary  $\int are/\int a=$ , which minimally involves two instantiations of the same type of event. Habitual aspect is pluractional in typically involving repeated, iterative, and distributive action. But it also carries an additional implicature that the recurrent event is characteristic of the behavior of the subject (for further details, see Reintges 2018 [2004]: 276–8 §7.3.6.2). The pluractional semantics of the habitual aspect auxiliary  $\int are/\int a=$  can be made more specific by adverbial modification. The preposed partitive noun phrase u-me?ese  $\exists n=sop$  'many times' imposes a frequentative reading on the present habitual form  $\int a=f$  aspaze 'he kissed (me)'.

(9) Present  $\int are/\int a =$  habitual aspect with topicalized adverb of iterative quantification

u-me?ese =fſa aspaze gar ən=səp əmmə=i HAB =CL.3M.SG kiss.ABS INDEF.M.SG-crowd PCL LINK=time PREP=CL1.SG e-ta-tapror on-DEF.F.SG.POSS.1SG-mouth "For many times, he (the venerable monk) would kiss me on my mouth." (Hilaria 10:11-12, ed. Drescher)

Just like in the case of present tense sentences, present habituals can have a generic interpretation. Proverbs, which thematize general conditions of human experience, exemplify this gnomic use, which at first blush seems to contradict with the plurality reading of habitual aspect. On closer inspection, it appears that for generalizations about the human condition to be valid, there must be more than one instantiation of the event type in question, which may be the relevant factor motivating habitual aspect selection. (10) Gnomic use of present fare/fa= habitual aspect in proverbial contexts
fare u-fεire ən=saβe: soitəm ənsa pe=f-eiot
HAB INDEF.SG-boy LINK=prudent listen.ABS after DEF.M.SG=POSS.3M.SG-father
"A prudent son listens to his father." (Proverbs 13:1, ed. Worrell)

The most salient reading for **er-Jan** conditionals with habitual aspect apodosis clauses is one of temporal contingency, in which the protasis event precedes the apodosis event in the timeline. Importantly, the temporal precedence relation between protasis and apodosis pattern of events does not exclude the possibility of a causal relationship. Rather the non-temporal reading is not the most salient one and involves additional inferencing. A garden-variety exemplar is given below. The **er-Jan** protasis clause describes the confrontation of the protagonist Hilaria with the desolate state of her own sister. As a reaction to it, she descends into an emotional state of despair with loss of self-control and hysterical attacks of crying. The selection of the habitual aspect in the apodosis asserts that "perception–reaction" chain of events took place on several occasions.

(11) **er-fan** protasis with present fare/fa = habitual aspect apodosis

e	$=_{\mathbf{S}}$	∫an	kjor∫ət	ehun	e-]	hra=s				
REL	=CL.3F.SG	COND	look.ABS	PCL	at–	face=POS	s.3f.sg			
∫are	pe=s−sa			ən=hun		βol		eβɔl		
HAB	DEF.M.SG=	=poss.3f	S.SG-part	LINK=inside loosen.AF			BS	PCL		
∫a	$=_{S}$	pal	hət=s	e	t∫ən	nə	$=_{S}$		riıme	()
HAB	=CL.3F.SC	G thro	ow.cs=cL.3	F.SG o	n	CONJ	=CL.3	F.SG	weep.ABS	5
"When she (Hilaria) looked at her (her sister), her inner part dissolved, she threw										
hers	herself on the ground and wept ()." (Hilaria 9:13–14, ed. Drescher)									

The pluractional semantics of habitual aspect can be quantified over. This is what happens in example (12), in which the universal quantifier adverb **ən-wəei**  $\int$  **nim** 'at every time, always' takes scope of the entire conditional sentence. Wide quantifier scope has a syntactic correlate in that the adverbial quantifier is placed in the topmost position of the conditional sentence, preceding the **er-fan** protasis in linear order.

(12) **er-fan** protasis with present fare/fa habitual aspect apodosis in universal quantifier context

ən–w∋ei∫	nim	e	=u		∫an	WOY		[ <sub>RC</sub> e	=u <b>x</b>	wom
in-time	every	REL	=CL	.3pl	COND	finish.ABS		REL	=CL.3PL	eat.ABS
əm-pe=uı-		əm=əik		ne	∫a	=u1	sorv	soːwəh		
PREP-DEF.M.SG=POSS.3PL-small				LINK	=bread	PRET	HAB	=CL.3	PL gathe	er.ABS
e-ne=u1-er	e-ne=uI-erEu									

to-DEF.PL=POSS.3PL-RECIPROC

"Every time when they finish eating their small (rations) of bread, they used to gather together." (Vita Pachomii Sahidice137:3–4, ed. Lefort)

The er- $\int an$  conditional can take the form of an impersonal existential clause e=s  $\int an \int ozpe$  'if it happened' into which a finite or nonfinite clause containing the semantically contentful material

is embedded. An illustrative example in this regard is the following one (13). The infrequency adverb **ən-u-sop** 'once in a while, now and then' surfaces inside the embedded infinitival clause, but takes scope of the protasis  $e=s \int an \int or pe$  clause. The possibility of quantificational expression to scope out of their clausal domain appears to be restricted to embedded infinitival clauses, as in the case at hand.

(13) **er-fan** protasis with present fare/fa = habitual aspect apodosis and temporal as well as modal interpretation.

alla e	9	$=_{S}$		∫an	∫orpe	[e-tre	=f	k <sup>i</sup> oːnət
but R	REL	=CL.	3f.sg	CONE	happen.AB	S PREP–CAUS	=CL.3M.SG	get_angry.ABS
ən–u–sa	<b>o</b> p ]		e	∫a	=f	k <sup>i</sup> oːnət	kata	t–he
in–INDEF	.sg-t	ime	REL	HAB	=CL.3M.SG	get_angry.ABS	according.to	DEF.F.SG-manner
ən=n-		[RC	e et	wo?:	5β]			
LINK=DEI	F.PL-		REL	purify	.STAT			

"When/if it happened once in a while that he (Pachomius) got angry, then he got angry in the manner of the saints." (Vita Pachomii Sahidice 3:20–21, ed. Lefort)

Infrequency of action is not necessarily in tension with the semantics of habitual aspect, which, under our definition, needs to fulfills a minimality conditional of two same-self events. In the above conditional sentence, a modal interpretation cannot entirely be excluded. In this case, the speaker/narrator neither asserts nor denies the possibility that the charismatic monastic leader Pachomius had angry fits. In entertaining this possibility two provisions are made. For one thing, the flareup were occasional and for another thing, they happened in a manner befitting for a saint.

The gnomic use of habitual aspect can also be observed in er-fan conditionals. The discourse paragraph in (14) involves inferential reasoning about the correlation between the direction of the wind and its climatic effects. That is to say, the northern wind brings with it a cooling effect, whereas the southern wind is correlated with an all-encompassing heat.

(14) **er-fan** protasis with present fare/fa = habitual aspect apodosis in inferential context

er–	∫an	u–teų	ən=	əmhit ei	eβ	วโ		
REL-	COND	INDEF.SG-win	d LINK	=north com	e.ABS PCI	L		
∫a	=tetən	eime	[t <sup>∫</sup> e	u–kßər	<b>p-</b>	[ <sub>RC</sub> et	na	∫orbe ]]
HAB	=CL.2PL	know.ABS	COMP	INDEF.SG-cold	DEF.M.SG	REL	FUT	happen.ABS
er–	∫an	u-tu=res		eį	eβɔl			
REL-	COND	INDEF.SG-win	d=south	come.ABS	PCL			
∫a	=tetər	eime	[t <sup>∫</sup> e	u–kauma	mən	u–hm	on	
HAB	=CL.2P	L know.ABS	COMP	INDEF.SG-he	eat with	INDEF.	SG– wa	rmth
p-	[RC	et na	∫orpe ]	]				
DEF.M	I.SG I	REL FUT	happen.A	ABS				

"When/if a northern wind comes, (then) you know that a chill will come to pass. If a southern wind comes, (then) you know that a burning heat and warmth will come to pass." (Pistis Sophia 348: 17–20, ed. Schmidt)

Although the inference drawn is unique, the factive knowledge verb **eime** 'to know' is pluralized as though there were several knowledge-acquisition events. But the plurality reading of habitual aspect pertains to the regular occurrence of the southern and the northern winds and the associated temperature rise and drop, which are described in the factive complement clauses of the knowledge verb **eime**. To summarize, **er-fan** conditionals with **fare/fa=** habitual aspect apodosis clauses have a salient temporal reading with outliers in the modal domain. The source of CERTAINTY conditionality is the verifiability of multiple occurrence of the same event.

# 4 Modal strengthening effects

The picture developed so far becomes more complex when modal strengthening effects are being considered. By this, we mean that the modal reading of er-fan conditionals is reinforced at the expense of the weaker temporal reading (Declerck 1997). The modal strengthening effects can be observed in in two specific environments, one of which are deontically modalized apodosis clauses and the other is negative polarity contexts.

The deontic future e=f e-sortom 'he should/must hear' is the modalized counterpart of the epistemic **na** future. Diachronically speaking, it derives from a locative construction, with the directional preposition **e** 'to' and an infinitival clause. As shown by example (15), the deontic future seldom refers to future time, but rather involves a subjective judgement on part of the speaker about the necessity or desirability for some event to be actualized. From this modal profile, we can understand why the deontic future is particularly well-suited for the expression of directive speech acts (Reintges 2018 [2004]: 267–269 §7.3.3.4).

(15)Deontic future tense used as a directive speech act e =ke wom de ən–ne RC nt ?a pə-nu:te REL =CL.2M.SG DEON.FUT eat.ABS PCL PREP-DEF.PL REL PERF DEF.M.SG-God tənnəu=su: na=k] send.CS=CL.3PL to=CL.2M.SG "You should rather eat from the (things) which God sent to you." (Apophthegmata Patrum n° 20, 4:16–17, ed. Chaîne)

In combination with deontic future tense apodoses, the  $er-\int an$  protasis clause has a restrictive function and narrows down the applicability of the directive to very specific circumstances. Particularly clear cases involve second person singular deontic future forms like e=k e-nehse 'you should arise'.

(16)  $er-\int an$  conditionals with deontic future apodosis clause in directive speech act

?awo	r ?ən	ne-sneu	e	=u <b>x</b>	∫an	amelei				
and	PCL	DEF.PL-brothe	r.PL REL	=CL.3PL	COND	neglect.ABS				
e	=k	e	nehse	əmmə=u:	həm	pə–nomos				
REL	=сг.2м.8	G DEON.FUT	arise.ABS	PREP=CL.3PL	, in	DEF.M.SG-law				
əm=p	ə–nu:te									
LINK=I	DEF.M.SG– <b>(</b>	God								
"And	again (a	s for) the brot	ther, if they	become neg	gligent, yo	ou should arise				
the la	the law of God." (Vita Pachomii Sahidice 94:14–16, ed. Lefort)									

In er-fan conditionals with deontic future tense apodoses, the situation reported in the protasis clause is hypothetical but foreseeable and based on world knowledge or shared cultural experience. The actualization of the hypothetical condition is not at issue but rather taken as a given. Although differing in this regard from er-fan conditionals with epistemic future apodoses, the IF-THEN schema that underlies the modal reading is retained. The description of the hypothetical situation in the er-fan protasis can be quite elaborate. The following precept from the Rules of Pachomius speaks about how to take care of an injured brother who cannot find rest at night.

(17) Modal interpretation of **er-Jan** conditionals with deontic future apodosis clause in prescriptive course of action contexts

er–	∫an	u—s	sən		de	∫ວ?ວ]	kje	=f	nə	=f		təm
REL-	COND	IND	EF.SG-	-brother	PCL	hurt.C	s=c	l.3m.sg	CONJ	=CI	3M.SG	NEG.AUX
ənkər	tək a	alla	e	=f		mɔ?ɔ∫	e	ehun	eβɔl	nə	=f	
sleep.A	BS ł	out	REL	=CL.3M	.SG	go.ABS		PCL	PCL	CONJ	=CL.	3m.sg
ər	kł	nria	ən-	-u–∫tɛn		8	I	u–k	uį		ən=ne	eh
do.CS	ne	ed	PRE	P–INDEF.	sG-tu	nic o	r	INDE	EF.SG—sm	nall	LINK=0	ointment
er–e		pe=f	-rm=	ən–ei					ßok		e-pə-r	na
REL-DI	EONT	DEF.N	4.SG=F	oss.3m.s	G–NM	ILZR=LIN	K—h	ouse	go.ABS		to-DEF.N	1.SG-place
ən=nə	oiko	nome	<b>DS</b>	nə	=f	t∫	it=	u:	na	=f		
LINK=D	DEF.PL-r	nanag	er	CONJ	=cl.3	M.SG ta	ke.	CS=CL.3	PL for	=CL.3N	M.SG	
							-	•				eeds a tunic
	or a small (quantity) of ointment, his steward should go to the place of the managers											
	and fetch them (these goods) for him (the injured brother)." (Praecepta Pachomius $n^{\circ}$ 105, 32:3–5, ed. Lefort)											
nº 103	5, 52:5	– <i>э</i> , е	a. Le	iori)								

The modal strengthening effects can also be observed in the context of negative polarity. Example (18) features a negated **er-fan** conditional, in which negative polarity is lexicalized by the negative auxiliary verb **təm** 'to do not'. The conjunction **eforpe** 'if', which represents a truncated existential clause 'if (it) happens', underscores rather than disambiguates the already present modal interpretation. It should furthermore be observed that the apodosis is an imperative clause **?a-t<sup>i</sup>i=s ən-t-ekkle:sia** 'Tell it to the church', which is the most typical syntactic form of directive speech acts.

them in

(18) Modal interpretation of negated er-fan conditional with imperative apodosis clause

e∫orpe	de	e	=f	∫an	təm	soːtəm	ənsoz=uz
if	PCL	REL	=CL.3M.SG	COND	NEG.AUX	hear.ABS	after=CL.3PL
?a–t <sup>∫</sup> i	$=_{S}$		ən–t–ek	kleisia			
AUG-say.CS	s =cl	3F.SG	to–DEF.F.	sg–church			
"If he (th	e brot	her) d	oes not liste	n to then	n, say it to	the church!'	'(Matthew 18:17, ed.
Balestri)							

As noted by Shisha-Halevy (2003), the deontic and the epistemic future have a negative portmanteaux counterpart **ənne**, which fuses negation and future time reference. The negative future **ənne** is commonly found in a verbal cluster with the ability modal auxiliary **ə** $\int$  'to be able to, can'. The only available interpretation for **er-** $\int$ **an** conditional with negative future **ənne** apodoses is a modal one.

(19) Modal interpretation of  $er-\int an$  conditional with negative future **anne** apodosis

poːrət∫ ?awor er e-nə=f-ereu ſan u–ei and REL COND INDEF.SG-house divide.ABS to-DEF.PL=POSS.3M.SG-RECIPROC p-ei [<sub>RC</sub> et ?ahe ənneſ əmmau ] rat=f DEF.M.SG-house stand.ABS foot=POSS.3M.SG NEG.FUT CAN REL there "And if a house(hold) becomes divided into each other, that house(hold) would not be able to stand (upright)." (Mark 3:25, ed. Balestri).

There are even more complex examples of modal strengthening through negation, in which both the **er-Jan** protasis and the apodosis clause are negated. One of the rare examples for the double-negation configuration is shown below. The **er-Jan** conditional is negated by the negative auxiliary **təm**, whereas the epistemic future **na** in the apodosis clause is negated by the standard bipartite negation  $n = \dots$ ?an. The apodosis clause is further modalized by the ability modal auxiliary **ə**J.

(19) Modal interpretation of negated **er-Jan** conditional with negated epistemic future tense **na** apodosis

er–	∫an	təm pə–roːme		apotas	apotasse		a	nim	
REL-	COND	NEG.AUX	DEF.M.SG-man	give_up	give_up.ABS		ıg	each.M.SG	
[ <sub>RC</sub> et	hən	n pə–kosn	nos]	nə	=f	na	ſ	∫oĭpe	
REL	in	DEF.M.SG-	-world.M.SG.NOM	NEG1	=CL.3M.SO	G FUT	CAN	become.ABS	
?an	əm	monakhos							
NEG <sub>2</sub>	as	monk.M.SG.N	ОМ						
"If a man will not give up everything that is in the world, he won't be able to become									
monk.'	monk." (Apophtegmata Patrum nr. 242, 74: 28–29, ed. Chaîne)								

It generally appears that negative polarity is incompatible with a temporal reading, regardless of whether the negation marking appears in the protasis, in the apodosis or in both.

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### 5 Discussion and outlook

Apodosis Tense/Aspect/Mood	Modal IF-THEN reading	Temporal WHEN reading
Epistemic future <b>na</b> apodosis	+	(+) (marginal)
Habitual aspect <b>fare</b> / <b>fa=</b> apodosis	(+) (marginal)	+
Deontic future apodosis	+	_
Imperative apodosis	+	(+) (marginal)
Negated protasis or apodosis	+	_

#### TABLE 2. Modal and temporal interpretations of er-fan conditionals

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