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Adverbial causal clauses as relative clauses: on siccome "because/since" from Old to Contemporary Italian

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(Article begins on next page)

English ones exhibit a wittem introducing the protasis of conditional clauses (Kayne 1991, Bhatt & Pancheva 2006). Like relative clauses, adverbial clauses the same distribution as DPs or PRe.g., Bresnan & Grimshaw 19,78 arson 1987, a, They usually yield island effects relative clauses disincewh-movement applied Donati 1997, Larson 1987, Caponigro 200,38 hatt & Pancheva 2006, a.o.).

Causal clauses, however, to be nexception to this pattern. As noted in Caponigro (2003) and Cecchetto & Donati (2012), causal clauses it two main differences that tease them apart from the vementione dedverbial clauses: (i) their reading; (ii) the morphology of subordinato (Sausal clauses to not display the intersective reading xhibited by the adverbial clauses to). (This was illustrated in (2).² Another property highlighted in Cecchetto & Donati (2012) is used lack of correspondence attested in various languages between relativizers and causal subordinators. An example is provided by English in which the tern why cannot introduce adverbial causal clauses.

Cecchetto& Donati (2012)account for these two peculiarities by suggesting that causal clauses on not involve relativizationThe authors propose that in relative clauses, as well as in adverbial clauses like thos (a), ith (e intersective reading arises from the presence of a trace in the TP/vP layer, and thust free movement of the wh-phrase from this portion of the clause to the left peripheor. the authors, relativization involves two ingredient the raising of the vh-element, which leaves a copy in the embedde clause, and the labeling of the structure by the element itself While the lack of correspondence between relativizers causal subordinators is accounted for in terms of labeling, the intersective reading, which according to the D X W K R U V L V ‡ W K H G H I L Q L Q J I H D W X U H R I U H O D W L Y captured in terms of movement of the-ittem. We focus on the latterspect

Rizzi (1990, 2001) demonstrated the transformed K \ ¶ ЕНКДҮНУ GLIIHUHQ the other whitems. For instance, while subject inversion is obligatory with other wh items in questions, likelove µZKHdønhle¶µKRødutando µZKHQ¶ LW LV QRW perchØwhere the subject precedes the verb. In addition, while othetems are sensitive to the sentential negationerch@s not. This contrast has been captured in Rizzi (2001) by claiming thaterch@s directly merged in the left periphery, while the other whitems move there, thereby triggering inversion and intervention effects. Cecchetto & Donati (2012) extend this analysis to adverbial causal clauses inW comparative and temporadonditional, locative lauses the whitems move from the TP/vP layer to the left periphenthe subordinator introducing causal clauses is directly merged in the left periphery of the clause and, thus, no movement of themwhs involved. As a consequence, no intersective reading arises in causal clauses.

A different approach istaken by \$ U V H Q 200/1) Hwhb argues that all adverbial subordinatelauses are derived by a generalized tegyof relativization and are therefore underlyingly relative clauseshis terms, relativization involves a derivation in whichone argument in the ubordinate clause is abstracted, turning the clause into a predicate over the respective, type ch combines with an argument of the same type in the matrix clause and figures as its modifier.

² Notice, however, that there are languages **D**ate ORZIRU ‡ZK\·IUHH UHOD (seeCaponigro et al. 202) Mantenuto & Caponigro 2022.1

³ Alternatively, why CPs may involve a short movement of the elenvent which moves locally in the left periphery, as argued by Shlonsky and Soare (**20**¢1)/mportant point is that also under such an analysis, the term does not leave a trace within the IP/vP.

clauses, the author proposes that three dify the situation argument in the matrix clause which is targeted by a speech act, content or attitude predicate V H Q L M H Y L ü 2021: 3) The subordinate clause is a relative use and modifies the situation of the matrix clause As a result, the natrix proposition is generically asserted in the domain of the restricted situation, i.e., for the situations in which the subordinate proposition obtains. To illustrate, the causal clause b) provides the restricted situations for the matrix proposition to be asserted.

(6) John stays late because he has a deadline.
§) RU WKH DFWXDO VLWXD Win Lthe Same Isit@uationKLFK - RK
he stayed late.

(adapted from \$ U V H O20211/1 44) Y L ü

Since the subordinator modifies a more abstract argument, i.e., the situation in . UDW]HU¶V WHUPV DQG QRW WKH2), HDVRQ DU the intersective reading, typical of relative clauses, is obtain (60) as well Hence, under such an approach, the relative clause analysis can be extended also to causal clauses.

We depart from \$ U V H QILVM \$HUY R. SI R V D O L Q F O D L P L Q J W K D W W K H a role in the derivation of the ausality interpretation in line with cartographic works (Haegeman 200). Moreover, we propose that he relation involved in causation is not simply correlation as in (6). Rather, in our castedy, the similarity in manner between the events in the two clauses is enriched by the implicature that correlation between events taking place in the same marineolves a causal relation.

22Causalsubordinatoins typologynd diachrony

Causality has been claimed to be a central notion relating two propositions. Indeed, causal relations are usually encoded phologically in many languages of the world (Kortmann1997, Cristofaro 2003). For instance, all European languages exhibit at least an adverbial subordinator for the expression of time and addition, cause is also the semantic relationship which exploits the greater number of subordinating conjunctions (Kortmann 1997: 1450).

Crosslinguistically causal relations are often coded by means of the same morphology used in relative, purpose and temporal cla(Ustreempson, Longacr& Hwang1985) For instance, in classical Indeuropean languages causal subordinators are old adverb derived from the theme of the relative, e.g., SaykEtriteGreek K ÅV Latin ut, or, more often, the causal form of the neuter singular of this pronoun, regardless of theoot (*yo-, *kwo, and *o-/to), like in SanskrityÆdAvestanyat, Greekhóti, hóteLatin quod, quon(Baños 2011).rl Ngizim, a Chadic language, the complementizegáa [†]a can introduce purpose and causal clauses (Schuh 1972: 380). Likewise, Hutchison (1976) notices a similar relation in Kanuri, a -NBeharan language, having the morpheme expressing both purpose and reason relations. Moreover, the literature has long noticed that causal subordinators usually develop from temporal and purpose conrives as the result of diachronicanalysis(Heine & Kuteva 2002: 246, 291¢ristofaro 2003: ch.6)Likewise, temporal and causal relations can be encoded by the same morphology as in the case of finglish

Diachronically, forms used to expressive or temporatheaningsmay be extended to coverausal relations. For instancia, HomericGreek, the subordinator

K AMtroduced purposend temporal when clauses, while it was extended to introduce causal clauses @lassicalGreek(Cristofaro 1998 Romance languages exhibit several causalubordinatorslerived from temporal pressions referring to a SRLQW LQ WLPH DIWHU WKH SRLQW RI UHIHUHQFH μΖΚΗQ¶ LQ WKH PHDQLQJ RI µADn Vekanhydlek iSopholvidGedRLQW ¶ μĺ by the Romance causal subordinatoosiginated from Latin post µDIWHU¶ Rυ LW comparative variant ostiu µ P R U H:⁴ Span/shipules (que) Portuguese pois (que) Occitan/Catalanpus (que), puix (que)enchpuisque Italianpoich ØAnother source of causal subordinators is represented by aspetetingdoral adverbs meaning µ D O U Galusal connectors of this sort are foims ome Romance language For instance, they are found & panish (ya que, Portuguese) & que Catalan and some Occitan varieties(ja que, Italian (giacchg while they are absent in Frendthe same grammaticalization process from temporal to causal subordinator is also attested in Germanweil.

Finally, few studies, focusing especially on European languages, report another lexical source for causal subordinators, namely modal expressions (Kortmann 1977: 195-197, Hualde & Pérez Saldany 2019). In Romance languages, the modal subordinatororiginated from the Latin adverbuomodo µ K R Z D V O L N H ¶ F D Q introduce causal clauses. This is illustrated for instance in Spanish and Ueset como Catalancom que French comme The same observation holds for Basque, in which the interrogative wondola µ K R Z ¶ F D Q E H X V H G W R L Q W U R G X F with causal interpretation Hualde & Pérez Saldany 2019). Likewise, the form etymologically related whL W H P intrisco Rode ¶ causal clauses in Sector atian kako(\$ U V H Q L M24) atudiin Polishjako * H - G U] H M R Z V N L

Grammaticalization research suggests that the changes just orthogram the enrichment of the original meaning of the items with condependent pragmatic meanings that the speakers and addresses regularly associate with the the bitsem. process is known as conventionalization of pragmatic implicature (Hopper & Traugott 2003), inference (Bybee, Perkins & Pagliuca 1994), conitektced reinterpretation (Heine, Claudi & Hnnemeyer 1991), or metonymization (Traugott & Dasher 2002). Conventionalization of implicature, the terminologyadopted in this study, is conceived of as a gradual diachronic proctizat leads a contextualependent inference to be conventionalized, and thus no longer cancelable. As noted by Grice and Traugott (2004), conversational implicatures may become (1975) conventionalized. When an item or a structure used in a specific cointer rise to the same invited inference often enough, it may become a generalized invited inference which is normally associated with the meaning the item/structure but it can still be cancelled. These inferences may become conventionalized and the inference formerly associated with the item/structure becomes part of its semantics. At this point, the item/structure may be ambiguous between itinarignd its newly grammaticalized meanings or the original meaning may be lost. In either case, when the newly grammaticalized meaning is recovered, it cannot be cancelled. Such a process has been claimed to be the mechanism at the batsie of hange from temporalsimultaneityto causal meaningweil)in German (Kortmann 1997Hopper ZH OsiOcetD the calusal 7 U D X J R W W Dν FKDQJH í

⁴ As noted by Ernou& Thomas (1953: 350, 362), Latinpostquarmay exhibit both temporal and causæladings

í

sincein English (Kortmann 1997 + R S S H U 7 U D X J, Hektekle 2015 254). The meaning of simultaneity has become enriched inferentially by the implicature that the simultaneous events are causally related vise, the meaning of past temporality has been enriched by the implicature that sequence of events implies causality.Conventionalization of implicatures has also been invoked as a possible scenario leading from urpose to causal meaning the implicature that the intended outcome of the urpose clause was actually achieved (Schmißtbee 2009). While studies on the grammaticalization process of temporal to causal expressions are quite numerous, the diachronic path from modal to causal meanings still deserve investigation Indeed, it is still open how the change from modal to causal expressions fit into this picture. Our paper addret sis is sue, by adding a new path in the grammaticalization process causal clause thus uncovering a diachronitink betweers imilative compaison and causatly. This diachronic change will be formally captured adopting the lative clause analysis of causal clauses

3. Our study: the diachrony officcome/si come CPs

This section illustrates the diachronysoccome/sì cockes through the history of Italian. Section 3.1 provides an overview of the meanings encoded dayme/sì come CPs We show that the causal meaning available in Contemporary Italian arises from a similative comparative interpretation these two interpretations are not uniformly distributed diachronically: comparative and causal meaningscobme/sì come indeed attested in different periods with different frequendies particular, three chronological periods are individuated. In Section 3.2, we describe littlee ent syntactic, semantic, pragmatic properties exhibited ibgome/sì cockes. Section 3.3 demonstrates that the usal interpretation are specific contexits the early stages and that it westended by bond them after the grammaticalization process was completed

To understant hedevelopment of the subordinator we explore at s diachrony through a survey of MIDIA, a corpus of about 800 written Italian texatisging from the 1th3 and the first half of the 20century. Since iccomes a morphologically complex form composed of the wpronouncome µKRZ¶ DQG WКН Sì Gu V IR U E L ZD HO SUR searched for the lexical itersiccomeas well as for its nonuniverbated variants) come⁵ We extracted 874 instancessoft comeand 1865 of comeand we identified the semantic relations they expressed. 53 occurrences over a total of 2739 were not classifiable. Therefore, we plotted the results obtained from the remaining 2686 occurrences. In addition to our introspective judgments as nativeexpealata on Contemporary Italian were collected by investigating the CORIS caspusell as its later updates. The CORIS corportains circa 150 million words from written texts dated 19822000 Its following updates (monitor corpora) and ded every three years in order to record innovations and modifications of the languageour search, the monitor corporacover the age ranges between 2001 and 20000 sentences containingsiccomevere analyze@.

In the MIDIA corpus we searched forome as lemma, preceded by the lemma
 Our query consisted of the following elementations: IRUP ‡VLFFRPH· 7LPH 6OLF
 \$ 0 0 · 6 XEFRUS XV ‡ \$ polyioon set to 0.10000 lines R Q G R U G D Q F H

3.1 The meaning of siccome/sì come in diachrony

Throughout the history of Italiansiccome/sì compresses both complement and adverbial relations. We here focus on the latter ones and we limit our investigation on siccome/sì coimmeducing a clause, leaving aside DPs and AdjPs.

When the clause is merged in an adjunct position, a temporal, comparative similative, and causal interpretation is available. The temporal interpretation of siccome/sì coissevery scarcely attested throughout the history of ItalTane total number of occurrences in whishcome/sì coimteoduces a temporal CP amount to 9 instances in the entire MIDIA corpus: seven occurrences in *Atheentury*, three in the 15th century and one in the the century. In all cases, the dependent event is factual and takes place either simultaneouslymmediately before the main event, as7h (

(7)	Ε	[si-ccome	si	scontraro	con	gli
	and	so-as	CL.RFL	meetPST.3PL	with	DET
	occhi]	si	punsono	il	cuore	ď'
	eyePL	CL.RFL	stingPST.3PL	DET	heart	of
	amoroso	disire				
	loving	desire				
	µ\$QG	DV WK	HLstulingHWAK	HHVL DP HKWH	DUWWK	₩\ZLW
	(Alberti, Is	toriettamor	rosa fra Leon	ora de' Bardi	e Ippoli	to Bonde
	15 ^h cent)					
	i o oonig					

Given the scarcity of attestations in which the subordinator exhibits a temporal reading, we do not further discuss these cases was destrict our focus on the comparatives imilative and causal interpretations.

Siccome/sì cointeroduces a comparison in which two events or propositions are compared with respect to some manner or degrees of some properties).as in (Conversely, when the dependent event provides a motivation fon the event to occur, the subordinator encodes a causal relation between the dependent and the main events as in9).

(8)	Veleni	de	la	terça	generat	ione	uccid	ono	per	
	Poison _{PL}	of	DET	third	generat	ion	kill. PF	rs 3 pl	by	
	loro	freda	leça,	[si-cco	me <i>fa</i>		Ο¶	oppio]		
	their	coldr	iess	so-as	do.	PRS 3 SG	DET	opium		
	μ7 Κ L ι	JG.	JHQ	HUDV	VLRQ	SRL	VRQ	V.N.L	00	Ε
	* U H J	IRU	l RFio	Gi¶i\$nl∉	dHc]n]anRic	I-14 ^h се	ent.)			

(9)	ma	[si-ccome	ero	stanc],	prima	di
	but	so-as	bePST.3SG	tired	before	to

⁷ Siccome/sì commen also introduce acomplement clause This is rarely found and ranges from a maximum of 21 instances found in 14#Pecentury texts to a minimum of 1 occurrence in 17th and 20th century texts An example isof complement clause introduced by siccome/sì coissi cicordandomi sì come io potea morire di quest plis bate al PEHULQJ WKD , FRXOG GLH I Anden Pro, VII ristan b Ric dialidian (a, NIII) n Contemporary Italian, this option is only available forome

tornare	indietro,	mi	fermai	un	росо		
go.INF	back	CL.1SG	stopPST.1SG	DET	little		
per	riposarmi.						
to	restINF-CL.1	SG					
putsince I was tired, before going back, I stopped a little to fest							
(Fucini,Le veglie di Ner1890)							

In order to investigate ow the comparative and causal interpretations were distributed in the history of Italian we calculated how many comparative and causal readings were found in the 2686 occurrences from the MIDIA corpus and in the 1000 occurrences from the CORIS corp

100% 80% 60% 40% 20% 0% 1200 1300 1500 1600 1700 1800 1400 1900 1980-2017 - CAUSAL •••• COMPARATIVE

Figure 1. The diachrony of omparative/causalccome/si coffes

Three macroperiods can be individuated on the basis of Figur(e) Stage 1 From 13th to mid-14th century, siccome/si coexebibits almost exclusively a comparative similative meaning (ii) Stage 2Betweenmid-14th to the end of 7th century, the main value of the subordinator is still comparative, but in few occurrences a causal interpretation is attested. (iii) tage 3From the end of the 7th century, we witnessan increase of the occurrences with a causal interpretation and a concomitant decrease of the occurrences with a causal interpretation and a concomitant decrease of the occurrences with a comparative reading trend reaches a turning pointring the middle of the 1th century. From this point onwards the instances of come/si comewith a causal meaning exceed those with a comparative reading the 20th century, the causal value becomes the only one attested.

between the dependent and the main eyeltevly acquired a causal reading. 3.2 Properties of comparative and causal siccome/sì come CPs

The question werow address iswhether, in the history of Italiancomparative and causal clauses introduced sigcome/sì coexelibit different properties. The aim is to detect whether the two readings are restricted to specifitactic, semantic and pragmaticconditions.

Throughout the history of Italia©ausal and comparative clauses by siccome/sì coheve always differed with respect to our properties as illustrated in Table 1.

Table 1 *Diachronically stable properties in comparative and ca*sisabme/sì come *CPs.*

Properties	Comparative CPs	Causal CPs
(i) Factuality	Factual and nonfactual	Only factual
(ii) Finiteness of the predicate	Finite and norfinite	Only finite
(iii) Semantic relation between th	Closely related	independent
dependent and main predicates		
(iv) (non)-at issueness	At issue	Non at issue

While the dependent event in comparative clauses may be both factual 60),nitt (is only factual in causal CPsikewise, while the dependent predicate may be non finite in comparative clauses (), it must be finite in causal CPs

- (10) a. e diede indulgenza e perdono, [SÌ come and give.PST.3SG indulgence and absolution so as oltremard. fosse andasse а chi contro go.SBJV.3SG overseas to whom besejv.3sg against detto a-l Federigo; mentioned Federigo to-DET µ\$QG KH JUDQWHG LQGXOJHQFH DO the abovementioned Federigo, as if they were going overseas (Villani, Nuova Cronica7.25; first half 14 cent.)
 - b. е [si-ccome un serpente mortifero toccasse deadly touchsbJV.3SG and so-as snake DET toccò la ciocca de-lle amate chiome touchpst.3s lock of-DET beloved DET hair G µ\$QG VKH WRXFKHG WKH ORFN RI W snake ¶ (Grossi, Ildegonda III, XLVI; 1820)

(11)	a.	Ciascuna		intende		sol	Dio	contemplando		
		each		understand?Rs3SG		only	God	contemplating		
		tutte	le	cose	mani	feste	е	certe	[sì	come
		all	DET	things	mani	fest	and	sure	SO	as
		nui	nello	spec	cchio	guar	dand∮			

The comparative hypothetical clause introduced stogcome/sì comean be coordinated with the comparative marker followed stog as in > « @sì come se nella matricola della detta footsseno scritticeme IRVVRQR DUWHILFLµG H@OO¶DUWH as if they were enrolled in the above PHQWLRQH(StatDtiUdWe Artei @ei ¶ornai e dei vinattieri di FBGA)ze

una

sirena

we in-DET mirror looking µ% \ FRQWHPSODWLQJ RQO\ *RG HY sureWKLQJV DV ZH GR ORRNLQJ LQ &HFFR '¶\$¶10 ₱,₱₦;02mteD1327)

b. E intrassono Cicerone [si-ccome a а an enterSBJV.3PL Cicero to soas to d salutarlo] greetINF-CL.ACC.3SG.M $\mu > 7 \text{ KH} \setminus \text{RUGHUHG} \text{WKDW} \otimes \mathbb{Q}$ DQG > W ł ZHUH JUHHWLQJ KLP ¶ (Bartolomeo da San Concordib, Catilinario XXIII; first half 14th cent.)

As for (iii), a comparative similative interpretation always arises when the predicate of the subordinate clause is identical, semantically similar or closely related to the predicate of the matrix clau(52). Likewise, it is strongly favored when the dependent predicate is a generic, habitual verb of the styles μ W R E H X V H G ¶ (13).

(12)	a.	SHUVR	NEG così so il DET t make the Q E H	posso canPRS 1SG né NEG pusillanimo coward e ignorant pers D X W L I X 0 d;ilotimo, 149	il DET terribile terrible son lean O Q R	brutto ugly posso canprs ned, so I ca	bello beautiful 1SG
	b.	<i>dimorano live.prs3</i> PL μ\$ Q G	nia psbjv.prss e and K H O L	dimori live.SBJV.PRS [sì coi 3SG so as fannd]; do.PRS 3PL . Y H V D Q stizia del Pop	me i DE	nd eatsBJ Priori T Prior.PL	V.PRS-3SG 2GV0.H[
	C.	0 m Oh m [si-ccome so-as		carino darling piace like.prs3sg	you	CL.1SG I a-I r	biaci ike.prs2sg mar sea

DET siren µ2K P\ EHORYHG RQH \RX SOHDVH (Gozzano) colloqui p.71; 1911)

- (13)Saffo giorno, quel era accorsa a. Sappho bepst.3sg run that dav *[*si-ccome soleva a-lla festività] use_toPST.3SG to-DET festival soas µ6DSSKR KDG UXQ WR WKH IHVWLY (Verri, Le avventure di Sattook 1, ch. 4; 1782)
 - b. laddove insino a-l diluvio gli uomini > « where Flood until to-DET DET men de-lle de-lle si erano pasciuti erbe е bepst.3pl of-DET and of-DET CL.RFL fed herbpl frutta che la terra e gli arbori fruit.PL thatREL treepL DET earth and DET somministravano loro spontaneamente > « (/si-ccome providePST.3PL them spontaneously so-as sostentaisi anche oggidì usano di alcuni nowadays USEPRS 3PL to sustainINF-CL.RFL also some popoli, е particolarmente quelli di California.] particularly those of California people and ZKHUH XQWLO WKH) O R R G µ > « @ ΡΗQ fruits that the earth and trees spontaneously provided to them, as even nowadays some peoples, anatticularly those of California, use to susta WKHPVHOYHV P (Leopardi, Storia del genere uma 1827)

Conversely, when the predicate of the dependent **esent** semantically close to the predicate of the main event, a causal interpretation ngly favored (14).

- (14) [si-ccome dovunque trattato cosl. а. е, era soas everywhere and bepst.3sg treated so non se la prendeva. CL.3SG CL.ACC.F takepst.3sg NEG VLQFH KH ZDV WUHDWHG OLN uDQG (Tozzi, Con gli occhi chius 913)
 - b. [Si-ccome un Inglese non viaggia per So-as DET Englishman NEG travelprs3sG to vedere Ρ¶ Inglesi], io avviai a-lla Englishmen I SeeINF CL.1SG set_outPST.1SG to-DET mia camera. my room µ\$QG VLQFH DQ (QJOLVKPDQ GRHV Q PΝ URRP ¶ (Foscolo, Viaggio sentimentale di Yorivitik 1804-1806)

Causal and comparative clauses also differ in terms of (antois)sueness: the former being nonat issue, while the latter can be at issue. In Contemporary Italian, causal clauses introduced by siccome/sì concrement be (i) fragmentanswers to $\mu Z K \setminus Z K L F K U H D V R Q \P T X HnVth & scoope of foolus particles QrQ R W E H$ negation (Salvi & Renzi 200) Frenguelli 2002 Dardano 2020). In these respects, they $differ from causal clauses introduced by erch <math>\emptyset \mu E H F D(15a/17a)$ Likewise, siccome/sì coopes also differ from comparative clauses introduced by e $\mu K R Z \P$ $Z K L F K F D Q E H I U D J P H Q W (D70) and that be in/the scoope Roz <math>\P T X H V V$ focus particles and negation (Salvi & Renzi 200, Dardano 2020).

- (15) a. Per quale motivosei arrivato tardi? Perché/*siccome ero in palestra µ: K \ G L G \ R ℜ D U U L Y H O D W H % H F D X V H , Z D V D W W K H J \ P ¶
 - b. Comehai cucinato il pollô
 Come mi aveva consigliato mia mamma.
 µ + R Z G bcook the Rcklicken?
 \$ V P \ P X P V X J J H V W H G P H ¶

(16) a. Sono venuto a cena da te non perché/*siccome ne avevo voglia, (ma perché mi hai invitato).
 µcame for dinner at your place not because I wanted to (but because you LQYLWHG PH¶

- b. Ho cucinato il pollo non come mi aveva insegnato mia mamma (ma come diceva la ricetta)
 μ, FRRNHG WKH FKLFNHQ QRW DV P\ PXP WROG
- (17) a. Sono venuto a cena da te solo perché/*siccome hai insistito tanto. µcame for dinner at your placently because you insisted so much
 - b. Ho cucinato il plo solo come mi aveva insegnato mia mamma. µ, FRRNHG ovtilyKasHmyFnKulm FtoWd Inte

We searched the fIDIA corpus for the occurrence soficcome/si copreceded by negation and focus particles: precisely, by the lemman µQRW¶ DQG solo/soltanto/solamenteRQO\¶ 7KH VHDUFK UHWXUQHG]HUR

⁹ A reviewer correctlynoticed that, **d** establish the **ats**ueness of **causai**ccome clauses, their use with the negation or focus manate been contrasted with perch@indcome clauses. S/he suggested to addcamparison with comparative imilative siccome clauses, because that is responsible for the effect though we agree with the reviewer, we cannot pursue this option, since in Contemporary Italian the comparative similative om is not used anymore. A possible implementation may be the formes come V R D V 7(s) Ream include the adverbcosi and the sentence ould still be in the scope of the focus particle. As for the previous stages of Italian, the comparison is illustrated (b) (

siccome/sì com the only instances in which the element was part of a focalization structure involved siccome/sì coase comparative subordinator.

de-lle Comune (18) Li oficiali castella del detto Commune DET Officer.PL of-DET castlePL of-DET mentioned non possano per alcuno modo spendere 0 NEG canSBJV.3PL for spendiNF any way or spendere diliberare che si fare 0 makeINF spendNF approveiNF that CL or spenda che dea per inanzi 0 si spendsBJV.3SG for onwards or that CL give.SBJV.3SG 0 che si paghi alcuna cosa della pecunia or that CL pay.SBJV.3SG anv thing of-DET monev del Comune detto se non Isì come si of-DET mentioned Commune if NEG CL so as diliberrae una volta 0 più] > « @ approveEUT.3SG one time more or The officers of the castles of the mentioned Commune cannot in any spend or cause to be spent or approve that anything of the money of i mentioned Commune be sperenceforth, or given or paid, except as it VKDOO EH DSSURY. MG RQFH RU PRUH 2 (Ordinamenti provvisioni e riformagioni del Comune dj FB551857)

Although the very scant number of attestations in the MIDIA corpus related to siccome/sì comes should be treated with caution, the basis of these data, we conclude that the content of causialcome/sì comes is not at issue, since not issue content cannot focalized (at least, the entire content, Simons et al. 20/16); it can be at issue is is come/sì comentative CPas it can be focalized

In addition to the abovenentioned four properties, causal and comparative clauses also differ with respect toother three properties which, differently from the former ones, are subject to a diachronic changes having of the event participants (vi) temporal relation between the dependent and the main, even(vii) positioning of the subordinate clause relative to the matrix one.

While in comparative clauses the predicates of the dependent and main events are usually semantically related one another, participants are not necessarily shared between the two even(see example (14)) n contrast, the occurrences f causal clausesextracted from the MIDIA corpushow that in the first and second tage(from 1200 to the end of 160,0) he dependent and the main event almost always share their participants, namely the agent/theme or the patient. In particular, from a syntactic point of view, the subject or the direct object of the causalise is coreferential to the subject or direct object of the matrix clause, as it is shown (

(19) a. la saetta > « @ [sì come egli

¹⁰ Likewise, both negation and focus particles could precede comparative clauses introduced bycom@and causal clauses introducedpbyrchØin the MIDIA corpus we found in 94 and 151 instances, respectively.

DET	arrow		SO	as	they		
erano		congiunt],	passò	<i>l</i> ′	uno		
bepst.3	PL	joined	passP.ST.3SG	DET	one		
е	<i>l</i> ′	altro	а	un'	otta.		
and	DET	other	to	one	time		
µ6 L Q F H		Vjøikeld WRJ	НИМАКНИ	WКН	DUURZ		
RQFH¶							
(Arrigo Simintendi da Prato) olgarizzamento delle Metamorficssi							
half 14 ^h cent.)							

b. Poi Tullio pose che si а Tullius øfter that CL.RFL put.PST.3SG to sedere. Catilina *I*si-ccome era apparecchiato ad Catiline sit.INF so-as bepst.3sg prepared to infignere faccia tutte cosel con chinata fakeINF all thing.PL with face bowed D¶ Padri domandò che egli non askpst.3sg FatherPL that they NEG to credessono mattamente niuna di lui, cosa believesBJV.3PL foolishly thing of him any µ7 K, When Tullius sat down, Catiline, since he was set to everything, with bowed face, asked the Fathersot foolishly believe DQ\WKLQJ DERXW KLP > « @ ¶ (Bartolomeo da San Concordib, Catilinario, XXIII; first half 14th cent.)

However, from the mid-18th century, sharing of participants does not hold anymore as it is illustrated in (20).

(20) *[*Si-ccome Francesco arrivava, Drogo non So-as Francesco arrivePST.3SG Drogo NEG Maria е si salutarono con esagerata and Maria CL.RFL with exaggerated greetPST.3PL cordialità cordiality µ6 L Q F H) U D Q F H V F R G L G Q R W DUULYH H[DJJHUDWHG FRUGLDOLW > «@ ¶(Buzzati, II deserto dei Tarțarin. 19; 1945)

Concomitantly, norreferential subjectstart to be found in causal GRshich was not attested before the third stage.

Tonia, [si-ccome domani (21) festal mi è Tonia so-as tomorrow beprs3sg holiday CL.1SG.DAT piacerebbe che faceste sentire vostri a-i like.cond.3sg that makesBJV.2PL tastelNF to.DET your forestieri cappone nero, che dicono un questPL capon black which savprs3pl DET abbia la ciccia più saporita.

havesBJV.3SG DET meat more tasty µ7 R Q L D V L Q F H W R P R UlikkeRyoZu to make yok/r kgutest W D V W H D E O D F N F D S R Q Z K L F K W K H \ (Faldella Giovanni Le figurine 1875)

A change occurred in theid-18th centurywith respect to the temporal relation between the causal and the main events. Till stage 2ausal interpretation of siccome/si converses possible only when the dependent event is simultaneous to or immediately preceding the main events ex. (19))Conversely, in comparative clauses the dependent and the main event may be temporally independent

(22)	а.	E and	passato passed				10 SBJV. 3 PL	e and
		sentenzino	la	questic	one [sì	come	vedranno	che
		judgesbJV.3	PL DET	matter	SO	as	SEEFUT.3F	PL that
		sia	giustd]					
		be.sBJV.3sG	right					
		µ\$QG	ZKHQ	WКН	GΗD	GOLO	2 H L V	RYHU
		<i>will see that</i> (Statuto de			ire n3e 01	313)		

b. lo nulladimeno continuerò chiamarla а nevertheless call.INF-CL3SG 1 continueFUT.1SG to *[*si-ccome *ho* fatto fin-qui] poesia poetry so-as up-here haveprs1sg done μ , Q H Y H U W K H O H V V Z L Q s O, KRDQY₩VLCDRXCHI (Muratori, Della perfetta poesia italiana; 1706)

Temporalsimultaneity or immediate precedent pr

(23) /Si-ccome io dovrò navigare ancora, Soas 1 have_toFUT.1SG sail.INF again progetto di dar-vi O *incarico* planprs1sg of give.INF-CL.2PL.DAT DET responsability della mia figlia. of-DET daughter mv ZLOO KDYH WR VDLO DJDLC µ6LQFH , GDXJKWHU ¶ (Garibaldi,Lettere a Speranza von Schwi858)

The last property that differentiates usal and comparative comesi come CPsregards their position relative to the host clause We took the position of the main predicate as the benchmark to establish the position of the subordinate let encode and a subordinate let encode and the left or to the right of the host clause.

Clause	-					
		GHT-CAUSAL FT-CAUSAL			RIGHT-COMPARA LEFT-COMPARA	TIVE
100%			89%	94%	98%	98% 88%
80%	72%	66%	65%	00.00	76%	0070
60%	67%	64%	0070	62%		
40%	33%	36%	35%	38%		
20%	28%	34%	11%	00/	24%	12%
0%				6%	2%	0.50%
070	1200-1375	1376-1532	1533-1691	1692-1840	1841-1947	1948-2017

Figure 2.The position of comparative/causat come/sì coores relative to the host clause.

Figure 2 shows that overall, comparative CPs tend to be found to the right of the host clause, while causal CPs tend to be placed to its left. Interestingly, the right position of causal CPis decreasing significantly from 15331691 to Contemporary Italian, when this option is almost absection versely, comparative CPs are quite consistently found to the right of the host clause from 189417. Hence, we can conclude that from 1533691 siccome/si comces are differentiated in terms of position relative to the host clause, with caluSPs occurring to the left.

3.3Interim conclusion

Section 3.1showed thathe diachrony of causalccome/sì co@escan be divided in three macroperiods. In Stage 1siccome/sì comenter exclusively encodes a comparative meaning. In Stage 2 the subordinator exhibits mainly a comparative reading but a causal interpretation is also attested. Finally, the causal interpretation increases in Stage 3 and becomes the exclusive reading bevain Contemporary Italian, while the comparative interpretation decreases and is eventually lost. Up to the mid18th century a causal interpretation arises when (i) the eixefatctual, (ii) the CP is finite, (iii) the dependent and the main predicates not semantically related, (iv) the content of the subordinate claisseon-at-issue, (v) a relation of simultaneity/immediate anteriority and (vi) the sharing of participants between the dependent and the main evant respected, (vii) the subordinate claiss to the left of the main clauseNotice, however, that in these contexts, a comparative interpretation of siccome/sì conise not excluded. Interestingly, when all these conditions are espected a reading ambiguity can emerge and come/sì comm receive both a comparative or a causal interpretation hustrated in (24), in which he dependent event provides either the manner in which the matrix event takes place or the reason why matrix event occurs.

(24)	[si-ccome	avete	guarito	lui	d e l	male
	so-as	haveprs2se	cured	him	of.DET	illness
	d e lla	lonzeriđ,	così	dovete	ora	guarire
	of-DET	lonzeria	so	mustPRS2	PL now	cureINF
	me	> « @				

I.acc

 $\mu \$ $\mu \$ $\mu \$ $\mu \$ $\mu \$ $h \$

From the mid-18th century, the temporal contiguity between the dependent and the main events is not a necess**aoy** dition anymore the dependent event does not always share its participants with the main event does also come/sì come/sì come almost exclusively precede the host clause

We can conclude that from the id-18th century the grammaticalization process of siccome/si conise completed the conditions licensing a causal interpretation are relaxed and eventually.lost

4. Proposal

In this section we propose that causal clauses are relative clauses and formalize the diachronic change illustrated in Section 3. In so doing, we extend the proposal advanced for temporal and comparative adverbial clauses to causal **introdesc**ed by siccome/sì comfess extension is motivated by the diachronic development we documented in the previous Sections and by the morphological form of the subordinator, which clearly contains the -wpronoun come μ K R Section 4.1 illustrates the theoretical sumptions on the syntax of relative clauses of their extension to causal clausection 4.2 ormalizes the diachronic change in the syntax of siccome/sì comfes.

4.1. The syntax of relative clauses

As in the cartographic literatureur proposal incorporates two fundamental aspects:

D WKH V\QWDFWLF UHSUHVHQWDWLRQ LV ‡EDUH· as in Chomsky (1995: ch.4); (b) the syntactic representation obeys antisymmetry

& L Q T X H F K orks, o\$uND Q Q O & V Q V X H X VO G V R Q . D \ Q H c-command according to which specifiers are adjuncts and an XP in Spec,ZP can c command out of the ZP (Kayne 1994: 16, 25 -¢omnFands Y iff X and Y are categories, D Q G ; H [F O X G H V < D Q G H Y H U \ F D W H J R U \ W K D

16). Although specifiers are adjuncts, for ease of exposementinue using the label

‡VSHFLILHU· 6SHF & 3 6SHF) 3 DQG 6SHF ' 3 WR respectively to CP, FP, and DP.

The derivation of free RCs adopted is the one proposed in Cinque (2013, 2020), and refined in Poletto & Sanfelici (2018), which include the following aspetts walk the reader through each steppcusing on those aspects which are relevant for siccome/si coordes.

¹¹ In the same period, causal and comparative relations become differeintiatitisting. Whereas in the first and second perisid,come/sì comere interchangeably used to cover both comparative and causal relations, from the 18th century,sì comevas only attested with a comparative meaning and ceased to encode a causal relation. The causal meaning was, and still is, expressed only by the univerbated force oneWe leave an investigation of the difference in writing conventions (and its plausible morphological reflex) to future research

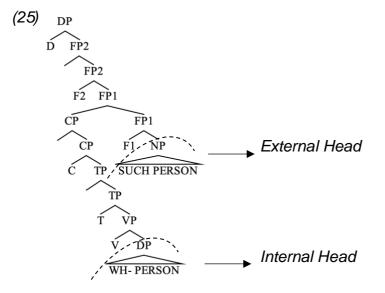
\$

(i) Freeard restrictiveRCs are clauses embedded under an embedded under an embedded under an embedded under DPs. An embedded as CPs in the specifier of a prenominal functional projection FP1, above the projections which host attributive adjectives and numerals and below the projections hosting strong determiners (Kayne 1994, Cinque 2013: 172, 197).

(ii) RCs involve two nondistinct nominal elements (Hulsey & Sauerland 20006que 2013, 2020a,b), one merged inside the RC and the other merged outside the RC in the QRPLQDOVSLQHZKLFKLVPRGLILHG Wellabel KH5& the former Internal Head and the latterexternal Head thereby using the term Head with capital letter whenwe refer to the nominal phrase that the RC modifies and the one that is relativized.

(iii) The external Head in free RCs is a classifile element of the type PERSON, THING, PLACE, TIME, MANNER, DEGREE, etc., which is the smallest component of a nominal expression (Kayn2005, Cinque2020a,b). For ease of exposure, we label it NP. The external Heads modified by a modifier of the sort SUCH, which can be lexically realized in some languages. In Italian, the external Head is usually modified by Italian demonstrative spiving rise to the socalled lightheaded relative clauses (Benincà 20).

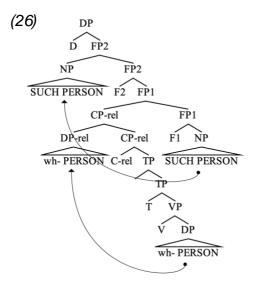
(iv) Since the internal Head is an argument of the pReclicate and a nominal expression is an argument only if it is introduced by a catego (Szabolcsi 198,7 Caponigro 200,4Longobardi2008), the internal Head is a DP, more specifically an indefinite DP (Bianchi 199,9Cinque 2013). This is captured in cartography by proposing an articulated structure as 25) (where the whelement takes as complement an NP network from the external NP.



(v) The C head is specified for a probing feature [*Rel*] and finds its goal in the internal Head, which has the feature [Rel]. The internal Head enters an Agree relation with C⁰ and adjoins to CPWe follow Rizzi (2004) in proposing that the feature [Rel] is a criterial feature. After the internal Head moves to Spec, CP, a criterial configuration is created which involves: Drelative, CP, C As in Rizzi (2015), the head and the specifiers involved in a criterial configuration agree for the criterial **Je**atwhich is shared onto their labels.

(vi) RCs can be derived via raising or matchinge(Cinque 2020b) the former case, the external Head remains in situ, while in the latter, the external Head raises to Spec, FP (Cinque 2020 a.o.).

We exemplify the points v) and (vi) in the tree(26). We illustrateonly the case in which the external Head raises to Spe ϱ , FP



With these premises, we tuto comparative and causal claus Esllowing Kayne (2005) and Cinqué 2020a,b), we propose that whereas in comparative clauses the internal Head consists of the vittem paired to a null nominal MANNERXTENT, in causal clauses, it is paired to a null nominal SITUATION. In so doing, we LPSOHPHQW \$UVHQLMHYLü¶V SURSRVDO IRU derivation.

On the basis offts etymology clearly connected to definiteness, we take the demonstratives WREHWKHPRGLILHURIWKHH[WHUQDO + proposal for SUCHSinces is the modifier of the external Head and precedes the wh pronouncome ZHIROORZ &, b) and ys is a propose that the external Head moves to Spec, EP

4.2. The syntax of siccome/sì come CPs in diachrony

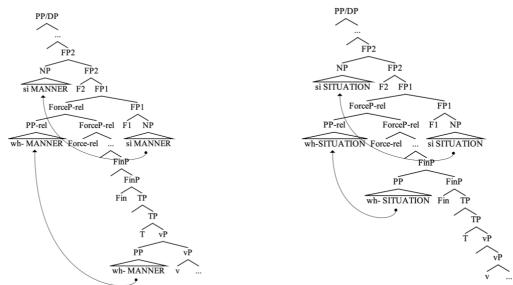
Through the diachrony of the lexical itemiccome/sì co(Section 3), we showed that the causal reading officcome/sì conaeose from a comparative milative interpretation. In addition, we demonstrated that semantic change from comparative to causal marker occurred in specific conte(a), when the clause was a finite CPin an adjunct position(b) the dependent event was factu(a), temporally contiguous to the main even(d) when the dependent event shared its participants with the main event (e) mainly when the clause was to the left of the time CP. In these contexts, siccome/sì conveild introduce both comparative and causal clauses. From the mid-18th century, conditions(c-d) started to be relaxed and are eventually lost. Conversely, the position of causal CPs becomes fixed, preceding the main CP. We claim that the diachronic extension of the meanings conveysid (by me/sì come depends on two propertie(si) the type of null classifier paired with the **-intern**; (b) the movement of the wphrase. 2 Q W K H E D V L V R I . D \ Qlike Plements, the diaclooxic Dextents ion D V V L I L H U of the meanings conveyed by come/sì cocase be phrased in terms an change in the types of classifiers with which the wideterminer can be paired. The extension is restricted to the pecific contexts discussed in Section 3; which ends with siccome/sì come paired to two different null nominals: MANNER/EXTENT in the case of comparative clauses and SITUATION in the case of causal clauses.

Causal and comparative clausies olve two different syntactic derivations he type of null classifiers determines whether the phasemoves to the COMP domain from the vP/TP layer, as in the case of comparative ome/sì converse whether it is already merged in the CP and moves to a higher CP position, as in the case of the causal siccome/sì converse follow Cinque (1999) in claiming that AdvPs and PPs have a fixed position within the clausal spine and extend times lysis to semantically related CPs. Hence, we assume a unified merge position for manner adverbs and comparative CPs as well as for situation adverbials and causal clauses.

The final landing site of the wphrases in relative clauses is Spec,FordelZz(& Bocci 2017).In comparative clauses, the wphrase moves from a specifier position within the vP layer-the position where manner adjuncts are merged (Cinque 1-999) to Spec,ForcePIn causal clauses, the wphrase moves from a specifier position within the CP -the position where situation and speech acts adjuncts are merged (Cinque 1999)- to Spec,ForceP. We illustrate the different derivations 2in): (comparative in 2(7a) and causal clauses in 7b).

b. Causabiccome/sì coches

(27) a. Comparative iccome/sì coores



Our analysis captures the difference one other by Cecchetto & Donati (2012) between comparative and causal clauses and main the ir general proposal according to which the wh phrase in comparative CPs moves from sition within the TP/vP layer to the left periphery, whereas it is externally merged in the COMP domain in causal clauses (see a Rizzi 2001)

As shown in Section.2, in the second stagearious occurrences were ambiguous between acomparative and causal interpretation: the clause introduced to yome/si comprovided the manner but it also entailed the cause for the realization of the main event. The ambiguity arose in specific syntactic contexts: when the dependent event

was (i) factual, (ii) temporally simultaneous or preceding the main ev(iii)t, with eventparticipants share(iv) when the subordinate clause was to the left of the main clause (v) when the subordinate clause was not focalifeen versely, from the third stage, this ambiguit possibly disappeare dsin the occurrence with meteorological predicates.

We capture this change proposing that he original ambiguity results from a invited and then generalized agmatic implicature which undergoes conventionalization in the history of Italian According to Grice (1975) nd Traugott (2004) when an item or a structure used in a specific context gives rise to the same invited be generalized inference often enough is inference may become conventionalized and the inference formerly associated with the item/structure becomes part of its semantics. At this point, the item/structure ambiguous between its original and its newly grammaticalized meanings or the original meaning may be. Idste grammaticalization of causality from the similative comparison is formally captured by proposing a the generality illustrated in 28).

Diachronic change of s	iccome in Italian	
Stage I	Stage II	Stage III
wh-MANNER/EXTENT	wh-MANNER/EXTENT	wh-SITUATION
movement from vP/TP	movement from vP/TP	external merge in
to CP	to CP	CP
	pragmatic inference of	polarization of
		morphological
	syntactic contexts)	forms
	Stage I wh-MANNER/EXTENT movement from vP/TP	wh-MANNER/EXTENTwh-MANNER/EXTENTmovement from vP/TPmovement from vP/TPto CPto CP

According to (28), in the first stage,only a similativecomparative meaning is associated to iccome/sì combe comparative which are which is paired to the null classifier MANNEREXTENT moves from vP/TP to the left periphetindeed, our data showed that between 1200 and 1350 circa,ome/sì combe exclusively introduced a comparative CP.

In the second stage, here the syntactic conditions were met, pragmatic inference arose the comparison between the manners in which the dependent and main event occurred sharingarticipants and in a temporal sequence such that the dependent event precedes the main event could be inferredbetoa comparison between situations causally linked. Although the wholeterminer is paired to the null classifier MANNER/EXTENT, a causal relation aroseas a pragmatic inference meaning of similarity in the manner/extentit which the events take places become enriched inferentially by the implicature that orrelation betweensimilar manners/extents involves acausal relaton. We proposentat the implicature is computed in the derived position of the whohrase, namely in Spec, Force \$P.V LQ 6 S R U4) Value 1 [vsiks H ¶ V of RCs, the whphrase could be either reconstructed in its original position, winnere our caseit expresses a manner relation absoin its derived position, where it entails a comparison over situations causally connected terestingly, our formalization captures the reading ambiguity we found in many occurrences from the second period, namely between 1400 to 1700 cirdahen the event was factual, the subordinate was finite, the dependent event was temporally simultaneous or immediately precedes the main event, the event articipants were shared between the subordinate and the main

clause, the subordinate clause was-**abis**sue, not focalized and was to the left of the main clause, a pragmatic inference of causality arises. The temporal coincidence or similarity, the sharing of the eveptarticipants, the position of the clause **he** teft where backgrounded information is usually placted ored the invited and then generalized pragmatic inference that two events which are similar in the manner, temporally related, affecting the same participants may be inferred to be causally conrected¹². These contexts, in which a causal interpretation could arise, do not instantiate independent properties of causal clauses. Indeed, as Cristofaro (2003) noted, causal clauses are temporally independent and do not impose any predetermination on the eveptarticipants. Rather, they are felicitous conditions for the pragmatic inference to arise.

Around mid-18th century, the inference Manners>situations becomes conventionalized The conventionalization has the syntactic reflex that he wh determiner is now paired with the classifier SITUATION. The conditions licensing the pragmatic inference of omparisons between situations causally connected me relaxed and are ventually lost. Thus, at stage 3,two derivations distinguish the comparative and causal adverbial clauses the former the whphrase moves from the whphrase vP/TP to the left periphering the latter the whphrase is externally merged in the left peripher. From around 1750, indeed, temporal coincidence or similarity as well as sharing of vent participants are not not not antiated in many occurrences. The position of causal CPs is robustly to the left of the main clause in almost all the occurrences.

In conclusion, for a derivation in whicksiccome/sì comeves to the left periphery and the causal relation results from a pragmatic inference, Italian slowly develops a derivation withiccompaired to the null classifier SITUATIO, which is exclusively externally merged and encodes causality. This diachronic drambas be viewed as instance of the Mergever-Move principle proposed in van Gelderen (2004).¹³

Our analysis makes an interesting predictiegarding the positioning of the subordinate clause relative to the stclause Since causal clauses modify a situation argument, they are assumed to be merged in the COMP domain, according to the

12 A reviewer was very skeptical about this proposalle criticized the addition of an implicature that becomes conventionalized and suggested to pursue an approach exclusively EDVHG RQ OH[LFDO PHDQLQJ VKLIW ‡ Z K D WD E R X WD V V > head SITUATION for independent reasons « @ DQG RYHU WLPH ±VLFFRPH· V ZLWK 6,78\$7,21 WRR UDWKHU WKDQ MXVW 0\$11(5(;7(already contains this syntactic changeexical shift which then correlates with a different derivation is indeed proposed at Stage 3. Howearapproach based exclusively on lexical meaning shift would not account for the change we observed. More precisely, it cannot account for the fact that a causal interpretation could arise only when specific conditions were met and many instances were any bious between a comparative and a causal interpretation in Stage 2 but not in Stage 3. Hence, although admittedly less elegant, we maintain our proposal. 13 Notice, however, that the status of Mergreer-Move has becomes guite problematic

in most recent minimalistic theories. For instance, Chomsky (2019: UCLA lectures) argues that, when possible, Move (Internal Merge) is favored as it is requires investi**gating**ller domain than External Merge. We thank an anonymous reviewer for having pointed this out. Since many diachronic changes have been captured in terms of the-dwlerdyleove economy principle,the consequences of these recent proposals for diachronic syntactic phenomena should be properly and deeply considered in another paper. cartographic approach. Conversely, since comparative clauses modify a manner argument, they are merged in the vP layer.

While for causal clauses **tin** position to the left of the main clause **many** the basic word order of mergeht positioning ocomparativeCPs to the left of the host clause is derived viatopicalization or focalization of the comparative CP to the COMP domain(see also Valmala 2009) Difference possibility is to move the comparative clause via clitic-left dislocation. In this case, a resumptive pron**may** appear in the host clauses illustrated in (2).

- (29) > « ([sì come il intelligenze а. capo ne le DET head in DET intelligencepl so as mistiche e sacre la cognizione е vita mystical and sacred DET cognition and life ľ significa, li piedi li effetti de е signify.prs3s DET effectPL foot.PL of and DET DET G le operazioni animd. così le mani umane soul DET handPL DET actionPL so human significano; signify.prs3pl µ\$V WKH KHDG LQ P\VWLFDO DOG and life, and the feet the effects of the soul, so the hands signify hi RSHUDWLRQV ¶ (Collenuccio Pandolfd, ilotimg 1497)
 - b. [Si-ccome ne-l ricavare la rendita deve Soas in-det deriveINF DET income mustprs3sg considerarsi sorta di frutto], così ogni every considerINF-CL profit sort of SO nelle deduzioni non deve lasciarsene alcuna. in-DET deductionPL NEG mustprs3SG leavecL-CL any As in calculating the income all sorts of profits must be considered so in deductions none must be left behind (Einaudi Luigi,La terra e l'imposta2; 1942)

Although a full discussion on resumption is outside the scope of this paper, we tested a correlation. If causal and comparative clauses have the same syntax in Stage 2 as we proposed, they are both merged to the right of the host clause. Hence, -the left positioning of either comparative or causal CPs should involve a similar amount of resumption in both comparative and causal CPs. Conversely, in Stage 3 cause I CPs merged in the CP and, thus, precede the host clause. Hence, we expect the proportion of resumption in causal and comparative CPs to differ: more resumptives are expected in comparative than in causal CH\$ prediction is borne out Ve looked at those occurrences in which both causal and comparative clauses were placed to the left of the main clause Ve calculated how many times a resumptive was present or absent in the main clause. In Stage 2 both comparative and causal CPs are resumed by an adverb in the matrix clause with a similar frequency, when they appear to the left of the matrix clause From 1300 to 1600, the percentages of a resumptive in the main clause are the following: causal clauses 1300=15%, 1400=50%, 1500=55%, 1600=45%; comparative clauses 1300=19%, 1400=47,5%, 1500=56%, 1600=43%. Example (32a) illustrates a comparative clause from Stage 2 resumed by the and we have have have be a causal CR shows a causal CR shows from Stage.2

(30) Adunque giusta che *[*si-ccome da cosa è Therefore thing bepres3sg that just so-as by molta gente fu nel onorato mondo many people bepst.3sg honored in-det world ingiustamente così giusta cosa che è da unjustly thing beprs3sg that SO just by ·ccento tanti demonii sia onorato hundred many demonPL bessjv.prs3sg honored de' nostri onori. cio-è di tutte le of-DET our honorpl thatis of all DET pene dello -'nferno. of-DET hell painPL µ7KHUHIRUH LW LV MXVW WKDW D ' people unjustly, so it is just that he should be honored by a hundre demons with our honors, that is, LWK DOO WKH SDL (Filippo degli AgazzariAssempriearly 15th cent.)

Conversely, in Stage 3 causal CPs are usually not associated to a resumptive in the matrix clause, whereas resumptives appear with comparative **CP**(29) with the same frequency attested in Stage 2. Put differently, from 1700 the presence of the resumptive is dependent on the clatyge: it usually appeared with comparative clauses but not or less so with causal clauses. When the subordinate preceders the m clause, a resumptive is present in the main clause in less than 16% of the occurrences with causal clauses and in more than 53% of the occurrences with comparative clauses: causal clauses 1700=15,8%, 1800=15%, 1900=6%; comparative clauses 1700=53%, 1800=51%, 1900=52%.

5.Conclusion

This paper addressed whether adverbial causal clauses are underlyingly relative clauses. By investigating the diachrony of the adverbial clauses introduced by the item siccome/sì comp DWR VLQFH ¶LQ WKH KLVWRU\ RI, WDOLDQ for relativization and adverbial causal subordination cording to which causal clauses are relative clauses over situations servisaged in SUVHQ(202/1)HWeL ü demonstrate that causas biccome/sì contevelops out of the comparative similative markeralong a three tep diachronic proces The change was formally captured by means of type of movement and not site site is paired to the wittern. In the first stage, the comparative with the site is paired to the model.

As a reviewer correctly noticed, *iv*ould be necessary to provide a diachronic investigation **6** the itemcosì/sìas it mayhave played a crucial role in the change from comparative to causal adverbiatcome/sòme CPsWe leave this for future research.

MANNER/EXTENT and moves from vP/TP to the left periphery. In the second stage, in specific contexts pragmatic inference is such that he dependent event could be inferred to be causally related to the main evolution the whole terminer is paired to the null classifier MANNER/EXTENT, the meaning of similarity in the manner/extent in which the events take place has become enriched by the implicature that similar manners/extentisvolve similarity between situations causallylated. The invited and then generalized inplicature is computed in the derived position of the whphrase, namely in Spec, Forcel R. the third stagethis inference becomes conventionalized with the syntactic reflex that the wdeterminer is now paired to the classifier SITUATION. The conditions licensing the pragmatic inference of causality become relaxed and are eventually lost. Thus, that period two derivations distinguish the comparative and causal adverbial clauter for a comparative clauses the whphrase moves from whphrase vP/TP to the left peripheny causal clausesthe whphrase is externally merged in the left periphetithough further researchis needed, a similar derivation may be extended to other Italian adverbial clauses which encode some sort of causal relationare diachronically derived from temporal clausestike those introduced by oich Ø, dal momento che

In so doing, our paper extends the relative clause analysis proposed in the theoretical literature for temporal, comparative and conditional clauseautsal clauses. In addition, it uncovers a novel link between comparative ilative and causal markers. Typological studies have indeed showed that causal markers are semantically and diachronically related to relative, temporal and purpose subordinators. Likewise, comparativesimilative markers have been argued to develop into temporal markers encoding simultaneity or immediate temporal anteriority. We demonstrated that causal markemay originate from comparative imilative ones. While causality usuallyarises as a conventionalized implicaturem temporal contiguity, our study shows thiatalsoarises from correlation betweensituations. The change from similative to causal markers attested in various Indeuropean languages and Basque. Future research is needed to establish to what extent the change from comparative to causal marker is a peculiarity of IEdecopean languages.

This paper opens new issues. For instance, it leaves unaddressed the role of univerbation and morphologicaleutralization. In the third stage, comparative and causalderivations are differentiated orphologically. While comparative clauses are introduced by the nonniverbated forms comeausal clauses exhibit the univerbated form of the subordinatos comeThe complete specialization of the two forms can be observed in various Venetan dialects where only causad miss followed by the complementaterche µ W K D W ¶ W K H U H E \ U H V H P E O Ljakd W K H G L D * Iµ E H F D Xdx2djb wski 2023). While in Italian we assist to a polarization of the morphological forms, in French and Spanish causal and compatentingeral relations are morphologically neutralized, being encoded by the same item, i.e., commecomo Future researcis needed to establish the competition between Italian siccome/sì comeas well as their possible overlaps.

Acknowledgments

:H ZLVK WRDXMGKLDHOQNFHWIKH WKH *RLQJ 5RPDQFH %DUFHOMRKDHD WKUHH DQRQ\PRXV UHYLHZHU\$OZKQRVH FI UHPDLQLQJ HUURUV DQG VKRUWFRPLQJV DUH RXUV

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