The Adverb Hierarchy in Jordanian Arabic: A Cinquean Approach

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ABSTRACT

This study explores the adverb/adverbial hierarchy in Jordanian Arabic (JA), appealing to Cinque's (1999) Universal Adverb Hierarchy (UAH), a cross-linguistically attested model of the structural placement of adverbs/adverbials. The study examines the extent to which JA relevant data is amenable to the UAH. The main findings generally corroborate the presence of the UAH in JA, supplying empirical evidence in favor of the validity of the UAH. More specifically, the study shows that some adverbs/adverbials (belonging to a specific semantic category) should occur to the left of (and hence c-commanding (cf. Kayne 1994)) other adverbs/adverbials that belong to a different semantic category, exactly in the same fashion that the UAH expects. Another important finding of this study is that the categorical status of an adverb vs. an adverbial is immaterial to the UAH, implying for an underlying structure of the UAH which is not affected by the type of the category (i.e. an adverb vs. an adverbial) that fills the designated Specifier positions of the UAH.

Keywords: Universal Adverb Hierarchy (UAH), negation, tense, Arabic.

1. Introduction

In contrast to other grammatical categories, adverbs had relatively received a little attention from researchers, given their syntactic behavior (i.e., being adjuncts which are not significant, e.g., to decide argument realization).¹ Jackendoff (1972) mentions that "adverbs are the least studied and most maligned part of speech. This is to some extent understandable, considering the variety of semantic and syntactic roles adverbs play in English" (p. 47). In recent years, adverbs have increasingly become one important aspect of syntactic (and semantic) investigation. The anatomy of adverbs and their placement and relationship to other sentential elements (especially verbs) have been thoroughly explored (see, e.g., Baker 1981; Bellert 1977; Ernst 1984, 2002; Costa 1996; Alexiadou 1997; Cinque 1999; Haider 2000; Cinque and Rizzi 2008).

There are two main approaches, among many others, that explore the distribution of adverbs in natural languages. The first approach is Cinque's (1999) Universal Adverb Hierarchy (UAH) which is a syntax-based theory which argues that adverbs are distributed in a sentence according to a specific hierarchy that is built-in (i.e. part of Universal Grammar, UG; cf. Chomsky 1957); any deviation from this hierarchy (e.g., an adverb which is expected to occur in a high position in the clause, but appears very low, nonetheless) is accounted for through movement (of either other sentential elements or even the adverb itself). On the other hand, the second approach, which is a semantics-based theory, proposes that the structural positions of adverbs inside the sentence are semantically forced, due to scope and other semantic aspects (Ernst 2002). In this approach, adverbs occur in a fixed order because of their interaction first with meaning of each other and second with sentential heads including Tense, Aspect, etc. This implies that there is no UG-given procedure through which adverbs are structurally ordered. However, this approach has been criticized due to its few typological gains and weaker force to account for the stark similarities that hold across languages with respect to adverbs' hierarchy. Additionally, as Cinque (2004) mentions, this approach "falls short [...] of accounting for certain

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¹ We are very much grateful to the anonymous reviewer of DIRASAT, whose remarks and comments considerably enhanced the quality of the paper. The following symbols are used in this study. 1,2, and 3 = Person; ACC = Accusative; DEF = Definite; F = Feminine; GEN = Genitive; JA = Jordanian Arabic (JA); IND = Indicative Mood; M = Masculine; MSA = Modern Standard Arabic; NOM = nominative; PL = Plural; SG = Singular; UAE = Universal Adverb Hierarchy.

crucial properties of adverbial syntax" (p. 684). In this paper, the former approach, the UAH is used as the theoretical framework and a departure point of this study.²

The UAH has received much interest from researchers who work on different languages. The UAH is widely considered a successful model of adverbs' distribution (see Haegeman 2012, Wiltschko 2014, Alexiadou, et al. 2015). The UAH is based on one main assumption, namely Adverb Phrases (AdvPs) have a universal rigid order. Each adverb occupies the specifier (Spec) position of a functional projection whose c-commanding relations with other functional (adverb-related) projections is fixed and invariant across languages. The UAH is also supported by the omnipresent situation that different types of functional head morphemes (e.g. mood, modality, tense, aspect and voice) occur in a fixed universal order (Chomsky 1957; Comrie 1976; Cinque 1994). Cinque argues that the order of adverbs and functional heads corresponds to each other; hence, it is an essential part of the UG. Cinque assumes that the UAH is barely affected by whether or not functional morphemes are morphologically realized or how they are materialized (i.e. being a suffix, an auxiliary or a particle). Furthermore, Cinque argues that morphological agreement and sentential negation have no impact whatsoever on the universally-fixed order of adverbs (i.e., the UAH). This implies that agreement and negation are not diagnostics of the adverb hierarchy. The UAH is schematized in (1).

(1)

 $\begin{array}{l} MoodP_{speech\ act} > \ MoodP_{evaluative} > \ MoodP_{evidential} > \ ModP_{epistemic} > \\ TP(Past) > \ TP(Future) > \ MoodP_{irrealis} > \ ModP_{alethic} > \ AspP_{habitual} > \\ AspP_{repetitive(I)} > \ AspP_{frequentative(I)} > \ ModP_{volitional} > \ AspP_{celerative} > \\ TP\ (Anterior) > \ AspP_{terminative} > \ AspP_{continuative} > \ AspP_{retrospective} > \\ AspP_{promixative} > \ AspP_{durative} > \ AspP_{generic/progressive} > \ AspP_{prospective} > \\ Mod\ _{obligation} > \ ModP_{permission/ability} > \ AspP_{completive} > \ VoiceP > \\ AspP_{celerative(II)} > \ AspP_{repetitive(II)} \ AspP_{frequentative(II)} \\ \end{array}$

This study aims to examine these assumptions against data from JA, an Arabic dialect that belongs to Semitic languages where the structural positions of adverbs are still under-investigated, while most available arguments are almost stipulative.

This study is structured as follows. Section 2 provides a general background about JA, with particular focus on the word order, subject-verb agreement patterns, and its pro-drop property. Section 3 examines the distribution of JA adverbs and adverbials that are located under Tense Phrase (low adverbs in our terminology). Section 4 discusses high adverbs/adverbials (located above TP). Section 5 is the conclusion.

2. Jordanian Arabic: An overview

Jordanian Arabic (JA) is a variety of Arabic which belongs to the Semitic language family, (see Jarrah 2017a,b). JA is spoken by roughly 9 million people in the Hashemite Kingdome of Jordan. It has a rich morphological system which comprises affixes such as inflectional markers for gender, person and number and clitics which include conjunction, prepositions and determiners (see El-Yassin 1985; Omari 2011; Al-Momani 2011; Jarrah 2017b, c). The unmarked word order in JA is SVO. However, like other Arabic varieties, JA permits, yet under certain situations, almost all possible word order permutations including VSO, SOV, VOS, OVS and OSV. Each permutation has its own independent structural properties.

In JA, overt pronouns get their morphological case due to their position in the sentence. For instance, NOM(inative)-case is assigned to free-standing pronouns that mostly occur sentence initially, (see (2a)); whereas,

 $^{^2}$ This does not imply that UAH received no criticism. However, its success in being a plausible approach for the study of adverb placement makes it a viable tool to explore adverbs and their structural positions in world's languages.

ACC(usative)- and GEN(itive)-cases are assigned to bound pronouns that occur as clitics attached to the verb, (see (2b-c)).

(2)					
a.	hu:		?i∬tara	?al-beit	
he.1	NOM		bought-3SG.M	DEF-house	
	"He bou	ught the house."			
b.	?aħmad	d	∫aaf-ha	fi-?as-sajjaara	
	Ahmad		saw.3SG.M-her.ACC	in-DEF-car	
	"Aħmao	d saw her in the car	."		
c.	?al-bina	at ∫aaf-at-u	fi-ha		
DE	F-girl	saw-3SG.F-him.A	ACC in-it.GEN		
"The girl saw him in it."					

JA is considered a null-subject language. The morpho-syntactic features of the subject (i.e. Person, Number and Gender) are realized by certain inflections attached to the main verb. For instance, in (2a) above the emphatic subject pronoun hu: 'he' can be safely dropped without distorting the grammaticality of the sentence. Moreover, in JA, the verb expresses full agreement with its subject, irrespective of the word order used, as shown in the following examples (taken from Jarrah 2017a, p. 7).

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(3)
a. wis<sup>c</sup>l-u l-wlaad
arrived-3PL.M DEF-boys
"The boys arrived."
b. l-wlaad wis<sup>c</sup>l-u
DEF-boys arrived-3PL.M
"The boys arrived."
```

By contrast, Modern Standard Arabic (MSA) shows differences between SVO/VSO with respect to the subject-verb agreement. In VSO clauses, the verb agrees with its subject only in Person and Gender, while in SVO clauses the verb agrees with its subject in all of the grammatical features (i.e. Person, Number, and Gender (Fassi Fehri 1993, 2012; Benmamoun 2000; Jarrah 2019a,b). Consider the examples in (3a-b) from MSA (the examples are taken from Musabhien 2009, p. 23).

(4)

a.	was ^s al-a	?al-?awl	aad-u
	arrived.3SG.M-IN	JD	DEF-boys-NOM
"The	boys arrived."		
b.	?al-?awlaad-u		was ^s al-u:
	DEF-boys-NOM		arrived-3PL.M
	"The boys arrived	l."	

In the following section, we discuss the distribution of low adverbs (i.e., adverbs that are base-generated in a position lower than Tense Phrase (TP)) in Jordanian Arabic (JA). It should be noted that all JA examples in this study are based on the first researcher's idiolect. This researcher comes from Amman. Some other JA speakers coming from other parts of Jordan might find some grammatical examples marginal. It should be noted nonetheless that all (un)grammatical examples in this paper are judged by other 30 JA speakers who similarly come from Amman.

3. The distribution of low adverbs in JA

This section examines the distribution of low adverbs/adverbials in JA. It first explores the position of low adverbs with reference to negation in JA, showing that all low adverbs/adverbials c-command negation, contrary to what Cinque (1999) argues for Italian and French in that negation c-commands low adverbs in these two languages. This disparity between JA on the one hand and Italian and French on the other is attributed to the base position of negation in the said languages. Unlike the case in French and Italian, (low)³ negation in JA is generated above VP, but under TP as well as all related functional phrases, following the general lines of Benmamoun (2000). Afterwards, the relative order of low adverbs in relation to each other is discussed. The discussion reveals that JA low adverbs are ordered in a similar fashion that is predicted in Cinque's (1999) UAH. This strongly speaks for the applicability of this hierarchy to JA grammar (and hence to natural languages as a whole), as it furnishes typological evidence in favour of this hierarchy. One important note to emphasis here is that this paper follows Kayne' (1994) antisymmetric approach to linearization and c-command. An element that precedes another element, it (the former) should c-command it (the latter). This means that rightward is downward.

3.1. Low adverbs ad negation

It is found that most low adverbs in JA precede negation. This apparently is inconsistent with Cinque's analysis for negation in Italian and French where negation is base-generated in a high position, relative to low adverbs. However, this contradiction dissolves if Benmamoun's (2000) approach for negation in Arabic is adopted. Benamamoun provides evidence that negation is generated in a very low projection that is c-commanded by all material between TP and VP. This is shown to be true for JA. For example, habitual adverbs such as *Gaadatan* 'usually' should occur to the left of the negative particle *maa* 'not; if *Gaadatan* follows *maa*, the resulting sentence would become ungrammatical, Consider the following pair, (*Gaadatan* >*ma*).⁴

(5)

a.	?aħmadd	Saadata	n	maa	bısaafer	fı-ha:ð	?il-wagit		
	Ahmad	usually		not	travel.3SG.M	in-this	DEF-time		
	"Ahmad usually does not travel this time."								
b.	*?aħmadd	maa	Saadatan	ı	bisaafer	fī-haːð	?il-wagit		
	Ahmad	not	usually		travel.3SG.M	in-this	the-time		

Additionally, the negative particle *maa* 'not' occurs with the tense anterior adverb *lessa* 'yet' which expresses negative information, providing that the latter precedes the former, as shown in the following examples.

(6)

· ·				
a.	?aħmadd	lessa	maa	?adʒa
	Ahmad	yet	not	come.3SG.M
	"Ahmad has not	come yet	."	
b.	*?aħmadd	maa	lessa	?adʒa
	Ahmad	not	just	come.3SG.M

Another JA adverb which has the properties of *lessa* 'yet' is *Sumr* 'ever.' This adverb necessarily precedes the negative particle *maa* 'not' and optionally follows *lessa*. Consider (7a) versus the ungrammatical example in (7b).

³ Alqassas (2015) argues that there are two positions for negation in JA: low and high, depending on whether the relevant negation is bipartite or not (i.e. single). In this study, we show that low negation is preceded by all adverbs/adverbials, whereas high negation is preceded by high adverbs. ⁴ We do not provide English translation of ungrammatical examples.

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(/)					
a.	?aħmadd	lessa	Sumr-uh		maa
	Ahmad	yet	ever-38	SG.M	not
	sa:farr		Sala		mas ^s er
	travelled.3SG.M		to		Egypt
	"Ahmad has neve	er been t	to Egypt."		
b.	*?aħmadd	Sumr-u	h	lessa	maa
	Ahmad	ever-38	SG.M	yet	not
	sa:far		Sala	mas ^s er	
	travelled.3SG.M		to	Egypt	

On the basis of the data presented above, it appears that habitual adverbs like *Saadatan* and the tense anterior adverbs *lessa* and *Somr* should precede the negative particle *maa*.

The examples above (5-7) are not consistent with Cinque's proposal for Italian and French where negation necessarily precedes tense anterior adverbs. For instance, in Italian, the adverb *mica* 'not' precedes *gia* 'already' (see the examples in (8)), which in turn, precedes *piu* 'any longer' (see the examples in (9)).

(8)

(7)

- a. Non hanno *micagia* chiamato, che io sappia.
 "They have not already telephoned, that I know."
- b. *Non hanno giamica chiamato, che io sappia.

"They have already not telephoned, that I know."

- (9)
- a. AH'epoca non possedeva *giapiu* nulla."At the time (s)he did not possess already any longer anything."
- *All'epoca non possedeva *piugia* nulla."At the time (s)he did not possess any longer already anything."

Although JA relative examples speak against Cinque's proposal of the position of negation, relative to low adverbs/adverbials, they provide credence to his proposal that natural languages differ from each other with respect to the structural position of the negation which is proposed by Cinque not to be a diagnostic of the UAH. This is the reason why Cinque excludes negation from his hierarchy as it is subject to language-internal rules. JA provides evidence to this effect. This supports the view that negation might be part of the UG; however, its structural position may not (Kayne 1994 and Cinque 1994).

3.2. Order of low adverbs with respect to each other

The next task to conduct concerns the order of various low adverbs with reference to each other. After examining the relevant data, it turns out that habitual adverbs in JA precede frequentative adverbs which, in turn, precede volitional adverbs and celerative adverbs. In addition, JA perfective adverbs necessarily precede durative adverbs which precede completive adverbs.

To begin, the habitual adverb *fala* $t^{c}uul$ 'regularly' commonly precedes the frequentative adverbial *yaalıban* 'often,' as is clearly shown in the following pair, (*faadatan* >*yaalıban*). (Note that should be an intonational pause between *fala* $t^{c}uul$ and *yaalıban* for the sentence to be accepted).⁵

⁵the adverbial *Sala t^suul* has two meanings: habitual with meaning *regularly* and manner with meaning *directly*.

(10)

(11)

(10)						
a.	?aħmadd	Sala t ^s uul,	yaalıban	bisaafer		Sala	mas ^s er
	Ahmad	regularly	often	travel.3SG.M		to	Egypt
"Ał	nmad regularly oft	en travels to Egyp	ıt."				
b.	*?aħmadd	yaalıban	Sala t ^s uul	bısaafer	Sala	mas ^s er	
	Ahmad	often	regularly	travel.3SG.M	to	Egypt	

The adverb *yaalıban* 'often' necessarily precedes the volitional adverb *fammdan* 'intentionally;' otherwise, the resulting sentence would crash, as evidenced by the following examples, (*yaalıban>fammdan*).

(11)					
a.	?aħmadd	yaalıban	bɪd ^s rub	?al-walad	Sammdan
	Ahmad	often	hit.3SG.M	DEF-boy	intentionally
"Al	mad often hits the	e boy intentionally	."		
b.	*?aħmadd	Sammdan	bɪd ^s rub	?al-walad	yaalıban
	Ahmad	intentionally	hit.3SG.M	DEF-boy	often

Sentences in (11) clearly show that the adverb *yaalıban* appears to the left of *fammdan*, whether it occupies a sentence-final position (separated from *fammdan* by other sentential elements) or is directly adjacent to *fammdan*. The situation that when the latter appears to the left of the former, the sentence would crash demonstrates that frequentative adverbs precede volitional adverbs in JA. This sequential order between the two adverbs advocates Cinque's hierarchy.

Likewise, the adverb *fammdan* necessarily precedes the high celerative adverbial *?ibsorfa* 'quickly/fast,' (see (12a)). If the order of these adverbs is switched, the resulting sentence would be ungrammatical, (see (12b)), (*famdan* > *?ibsorfa*).

(12)

a.	?aħmadd	Sammdan	?ibsur§a				
	Ahmad	intentionally	quickly				
	bɪd ^s rub	?al-walad	(?ibsursa)				
	hit.3SG.M DEF-boy		(quickly/fast)				
	"Ahmad intentionally quickly hit the boy."						

b.	*?aħmadd	?ibsurSa Sammdan	bid ^s rub ?al-walad		
	Ahmad	quickly intentionally	hit.3SG.M	DEF-boy	

Cinque differentiates between the celerative adverbs 'quickly/rapidly' and 'fast' in English. He shows that the former should precede the latter. As a result, it is located in a higher position in the hierarchy. Consider the following examples.

(13)

a. He *quickly* ran away.
 He ran away *quickly*.

b. *He *fast* ran away. He ran away *fast*.

?ibsorfa is used for the two meanings in JA (this is why this adverbial leads sometimes to sentence ambiguity). However, if *?ibsorfa* 'quickly/rapidly' occurs to the left of the verb, it manifests the interpretation of a subject-oriented adverb (i.e. the way Ahmad hits the boy was quick); whereas, if *?ibsorfa* 'fast' appears to the right of the verb, it gives the interpretation of a manner adverb, (i.e., Ahmad hits the boy in a quick manner). This clearly abides by the UAH. Evidence for this comes from sentences where $\partial ibsor a$ is used in conjunction with the perfective adverb *daajman* 'always.' The two adverbs can follow or precede each other, manifesting nonetheless different interpretations. In (14a) below, *daajman* falls within the domain of $\partial ibsor a$; therefore, it shows the interpretation that Ahmad is quick in eating apple, but not necessarily always. By contrast, in (14b), $\partial ibsur a$ falls within the domain of *daajman*. In this case, the sentence has the interpretation that Ahmad always eats apple in a quick way.⁶

(1	4)

a.	?aħmadd	?ibsurSa	daajman	bo:kel	tuffaaħ		
	Ahmad	quickly	always	eat	apple		
"Ahmad quickly always eats apples."							
b.	?aħmadd	daajman	?ibsurSa	bo:kel	tuffaaħ		
	Ahmad	always	quickly	eat	apple		
	"Ahmad always quickly eats apple."						

On the other hand, when *?ibsursa* means 'fast,' (i.e. bears an interpretation of a manner adverb), it can only occupy a sentence-final position, as shown in the following example.

?aħmadd	daajman	bo:kel	tuffaaħ	?ibsurSa		
Ahmad	always	eat	apples	fast		
"Ahmad always eats apples fast."						

At this point, the discussion reveals the following relative order of JA low adverbs

(16)

(15)

Saadatan 'usually'/ Sala t^cuul 'regularly'> *yaalıban* 'often'>*Sammdan* 'intentionally'> *?ibsorSa* 'quickly' >*?ibsorSa* 'quickly/fast'

Let us examine the relative order of the perfective adverb *daajman* 'always' against the durative adverbial *fawwran* 'immediately.' The perfective *daajman* should precede *fawwran*; otherwise, the resulting sentence would become ungrammatical. This fact is shown in the following examples: (*daajman* >*fawwran*).

(17)

a.	?aħmadd	daajman	fawwran birudd	Sala		?at-telefo:n	L
	Aħmad	always	immediately	answer	.3SG.M	on DEF-phone	e
"Aħmad always immediately answers the phone."							
b.	*?aħmadd	fawwran	daajman	bırudd	Sala	?at-telefo:n	
	hmad	immediately	always	answer.3SG.M	on	DEF-phone	

Likewise, the prospective adverb *ta?ri:ban* 'almost' in JA should precede the perfective adverb *daajman* 'always,' as explained in the following pair, (*ta?ri:ban* >*daajman*).

(18)

a.	?aħmadd	ta?ri:ban	daajman	bı∬rab		?ahwe
	Ahmad	almost	always	drink.3SG.M		coffee
"Ah	mad almost alway	s drinks coffee."				
b.	*?aħmadd	daajman	ta?ri:ban	bı∬rab	?ahwe	
	Ahmad	always	almost	drink.3SG.M	coffee	

⁶Note the pair in (14) should be accompanied by appropriate intonational patterns to be accepted as noted by all of the informants.

The resulting hierarchy of JA low adverbs is structured in a way that clearly advocates for Cinque's argument about adverbs being sequenced in a universal order.

(19)

Saadatan / Sala t^suul> yaaliban > Sammdan > PibsorSa > taPri:ban> daajman > fawwran>

This discussion indicates that adverbs (and corresponding adverbials) in JA are constrained with respect to their distribution inside the sentence. Adverbs are not free but follow a strict order between them, taking into consideration Cinque's (1999) assumption that adverbs have one base-position; though, they may occur in different positions, given the movement of the elements around them.

In the following section, we examine the distribution of high adverbs with relation to negation (hence providing evidence for their relatively high position) and with each other (hence supplying evidence for their strict order between them).

4. Distribution of higher adverbs in JA

In this section, we provide evidence that high adverbs are generated above TP, providing support from JA in favour of Cinque's (1999) AUH. This section begins by discussing the position of high adverbs with reference to negation and tense in JA. It is found that negation (even if its projects above VP; see Alqassas 2015) is preceded by all high adverbs. Afterwards, the relative order of high adverbs is tackled, with respect to low adverbs. Finally, the relative order of high adverbs is explored with respect to each other.

4.1. High adverbs with respect to tense and negation

This section examines the distribution of two adverbials and one marker that are argued to be base-generated in the high portion of the clause, as representative examples of high adverbs/adverbials. These elements include the speech act adverb $2ibs^{c}ara:\hbar a$ 'frankly', *liħusn lħaðs*' fortunately' and the evidentiality marker *fikal* 'evidently'. The structural positions of these three elements is examined with respect to their positions to negation and tense.

Firstly, the speech-act adverbial *?ibs^sara:ħa* 'frankly' should precede the negative particle *maa* 'not' which generates above VP (cf. Alqassas 2015). Consider the following pair.

	1	Δ	1
- (1	U)

· /						
a.	?ibs ^s ara:ħa		?aħmadd	maa	sa:far	
	frankly		Ahmad	not	travelled.3SG.M	
"Frankly, Ahmad did not travel."						
b.	*maa	(?aħmadd)	?ibs ^s ara:ħa	(?aħmadd)	saːfar	
	not	Ahmad	frankly	Ahmad	travelled.3SG.M	

Now consider the relative order of *?ibs^cara:ħa* with respect to negation and the past tense copula *kaan* 'was.' The adverbial *?ibs^cara:ħa* occurs to the left of tense and negation, as shown in (21a); otherwise, the sentence would crashes, as shown in (21b).

(21)

a.	bs ^s araa	ħa	?aħmadd	maa	kaan	mı∫tari	?as-sajjaara	
	frankly		Ahmad	not	was	bought	DEF-car	
"Fra	"Frankly, Ahmad was not buying the car."							
b.	*maa	kaan	bs ^s ara:ħa	?aħmac	ld	mı∫tari	?as-sajjaara	
	not	was	frankly	Ahmad		bought	DEF-car	

Additionally, *?ibs^sara:ħa* remains in a sentence-initial position even if the subject appears post-verbally. In such

instances, the negative particle maa 'not' followed by kaan is argued to move to a position to the left of the subject.

()						
?ibs ^s ara:ħa	maa	kaan	?aħmadd	mı∫tari	?as-sajjaara	
frankly	not	was.3SG.M	Ahmad	buying	DEF-car	
"Frankly, Ah	mad was	s not buying the o	car."			

This indicates that *?ibs^sara:ħa* occupies a very high position in the sentence.⁷

Similarly, the evaluative adverbial $li\hbar usn l\hbar a\delta^{\varsigma}$ 'fortunately'should precedes the negative particle *maa*, as shown in (23a); otherwise the resulting sentence would crash, as evidenced in (23b).

(23)

(22)

a.	līħusn l	ħað ^s	?aħmad	d i	maa		sa:far		Sala	mas ^s er
	fortunat	tely	Ahmad	1	not		travellee	ł	to	Egypt
"Foi	"Fortunately, Ahmad did not travel to Egypt."									
b.	*maa	līħusn lī	'nað ^s	?aħmadd		sa:far		Sala	mas ^s er	
	not	fortunat	ely	Ahmad		travelled	1	to	Egypt	

The sentences in (23) provide evidence that $li\hbar usn l\hbar a\delta^{c}$ is base-generated in a high position. This is also supported by the following examples that show $li\hbar usn l\hbar a\delta^{c}$ should precede the sequence of *maa* and *kaan*.

(24)

līħusn lī	ħað ^ç	?aħmadd	maa	kaan	msaafer	Sala	mas ^s er
fortunat	ely	Ahmad	not	was	travelling	to	Egypt
"Fortunately, Ahmad was not travelling to Egypt."							
*maa	kaan	lıħusn lħað ^ç	?aħmad	d	msaafer	Sala	mas ^s er
not	was	fortunately	Ahmad		travelling	to	Egypt
	fortunat Fortunate *maa	*maa kaan	fortunately Ahmad Fortunately, Ahmad was not travellir *maa kaan liħusn lħað ^ç	fortunately Ahmad not Fortunately, Ahmad was not travelling to Egy *maa kaan liħusn lħað ^ç ?aħmad	fortunately Ahmad not was Fortunately, Ahmad was not travelling to Egypt." *maa kaan liħusn lħað ^ç ?aħmadd	fortunately Ahmad not was travelling Fortunately, Ahmad was not travelling to Egypt." *maa kaan lıħusn lħað ^ç ?aħmadd msaafer	fortunately Ahmad not was travelling to Fortunately, Ahmad was not travelling to Egypt." *maa kaan lıħusn lħað ^ç ?aħmadd msaafer ʕala

This essentially implies that the two adverbials $2ibs^{\varsigma}ara:\hbar a$ and $li\hbar usn l\hbar a\delta^{\varsigma}$ c-command tense and negation. This strongly confirms Cinque's AUH that high adverbs/adverbials are positioned in a very high in their clauses.

Consider now the relative order of negation and tense with reference to the evidentiality marker *fikil* 'evidently' which is argued to head the Mood_{eviential} Phrase that is originated above TP in JA clauses (Jarrah and Alshamari 2017).⁸The marker *fikil* should precede the negative particle *maa*, as showing in the following pair.

1	\mathbf{a}	5	1
t	4	J	,

a.	∫ıkıl	?ız-zalamah	maa	dʒawwaz		
	evidently	DEF-man	not	married		
"Evidently, the man did not get married."						
b.	*maa	∫ıkıl	?ız-zalamah	dʒawwaz		
	not	evidently	DEF-man	married		

As for tense, the evidentiality marker *fikil* 'evidently' *fikil* should precede the past tense copula *kaan*, as shown by the following sentence.

⁷The anonymous reviewer points out that the adverbial $2ibs^{c}ara:\hbar a$ 'frankly' can appear in different positions inside the sentence, including the position at the very end of the sentence. Cinque (1999) argues that such cases are resulted not because this adverbial is mobile (or has not a fixed position, but because of movement of the elements (located to its right) to some position in the CP. However this analysis does not exclude the possibility that some adverbials in JA obtain a freer distribution, we leave this matter open pending further research.

⁸According to Jarrah and Alshamari (2017), *fikil* is an evidentiality marker that is used when the speaker relies not on first-hand evidence as a source for the proposition of his/her utterance. They argue that it means *evidently* not *surely*.

(26)							
∫ıkl	?ız-zalamah	maa	kaan	mīdzawwez			
evidently	the-man	not	was	married			
"Evidently, the man was not married."							

The discussion reveals that what is classified as a high adverb (originated above TP) in Cinque's model of AUH is also positioned high in JA, as they precede negation and tense.

In the next subsection, the relative order of high adverbs in JA with reference to low adverbs is explored. We will argue that high adverbs necessarily precede low adverbs. This clearly adds typological credence to Cinque's universal hierarchy, as JA, a Semitic language that belongs to a different language family of those investigated by Cinque, affirms this hierarchy.

4.2 The relative order of high adverbs with respect to low adverbs

In this subsection, we show that JA high adverbs maintain a rigid order with respect to low adverbs. JA high and low adverbs can be compared together; each high adverb can be paralleled sequentially with another low adverb. If the two high and low adverbs exhibit a rigid order, then by transitivity, the next paralleled adverbs are examined, and so on.

At first, the speech act adverb *?ibs^cara:ħa* 'frankly'necessarily precedes the habitual adverb *?aadatan* 'usually,' as can be shown in (27a). If the order is reversed the sentence crashes, (see 27b), (*?ibs^cara:ħa*>*?aadatan*).

(27)

a.	?ibs ^s ara:ħa	Saadata	n	?ana	ba∬tari		ħali:b
	frankly	usually		Ι	buy.1SC	ť	milk
"Fra	nkly, usually I bu	y milk."					
b.	*Saadatan	bs ^c ara:ħa	?ana	ba∬tari		ħali:b	
	usually	frankly	Ι	buy.1SC	3	milk	

Consider now the relative order of the evaluative adverbial *lihusn lhað*^{*s*} 'fortunately' with the frequentative adverb *yaalıban* 'often.'The former should precedes the latter, (*lihusn lhað*^{*s*}>*yaalıban*).

(28)

a.	lıħusn lħað ^s	yaalıba	n ?aħmadd
	fortunately	usually	Ahmad
	bistaxxdem	?aħzaa	m ?al-?amaan
	use.3SG.M	belt	DEF-safety
	"Fortunately, usu	ally Ahmad uses t	he seatbelt."
b.	*yaalıban	līhusn lhað ^ç	?aħmadd
	usually	fortunately	Ahmad
	bistaxxdem	?aħzaam	?al-?amaan
	use.3SG.M	belt	DEF-safety

Another example that shows that high adverbs precede low adverbs comes from the distribution of the evidentiality marker *fikil* 'evidently' with respect to the volitional adverb *Sammdan* 'intentionally,' (*fikil* >*Sammdan*).

(29)

a.	∫ikil-uh	Sammdan	?al-walad	bıftaħ	?al-baab	
	evidently-3SG.M	intentionally	DEF-boy	open.3SG.M	DEF-door	
	"Evidently, intentionally the boy opens the door."					

b.	*Sammdan	∫ikil-uh	?al-walad	bɪftaħ	?al-baab
	intentionally	evidently-3SG.M	DEF-boy	open.3SG.M	DEF-door

Likewise, the epistemic adverb *jemkin* 'probably' should precede the celerative adverbial *?ibsor?a*'quickly.' (*jemkin* >*bsor?a*).

(30)

a.	jemkin	?ibsorfa	?aħmadd	raħ	ji:dʒɪ
	probably	quickly	Ahmad	will	come.3SG.M
"Probably, quickly Aħmad will come."					
b.	*?ibsorSa	jemkin	?aħmadd	raħ	ji:dʒɪ
	quickly	probably	Ahmad	will	come.3SG.M

By the same token, the past-tense high adverb *zamaan* 'once' should precede the low perfective adverb *daajman* '*always*;' otherwise, the resulting sentence would crash. (*zamaan* > *daajman*).

		-		
(31)				
a.	zamaan	daajman	?aħmadd	kaan
	once	always	Ahmad	was.3SG.M
	jsaafer	Sala	mas ^s er	
	travelling	to	Egypt	
	"Once, always Al	hmad was used to	travel to Egypt."	
b.	*daajman	zamaan	?aħmadd	
	always	once	Ahmad	
	kaan	jsaafer	Sala	mas ^s er
	was.3SG.M	travel	to	Egypt

Other two JA adverbs which comply with Cinque's approach include the high future-tense adverbial *basdem* 'then' and the low durative adverbial *fawwran* 'immediately.' The adverbial *basdem*should precede *fawran*, as shown in (32a). The opposite word order between these two adverbs is not accepted, as it leads to the sentence being ungrammatical, as shown in (32b), (*basdem>fawwran*).

(3	2)
(-	-,

(-	,				
a.	basdem	fawwran	?aħmadd	?e∬tara	sajjaara
	then	immediately	Ahmad	bought.3SGM	car
"Tł	nen, immediately A	Ahmad bought a ca	ır."		
b.	*fawwran	basdeın	?aħmadd	?e∬tara	sajjaara
	immediately	then	Ahmad	bought.3SGM	car

Similarly, the high irrealis adverb 2*iħtımaal* 'perhaps' should precede the generic/prospective adverbial *biðaat* 'characteristically,' (2*iħtımaal>biðaat*).

(33)

a.	?ıħtımaal	bıðaat	?aħmadd	jsaafer	Sala	mas ^s er
	perhaps	characteristically	Ahmad	travel.3SG.M	to	Egypt
"I	Perhaps, characteri	stically Aħmad tra	vels to Egypt."			
b.	*bıðaat ?ıħtıma	al	?aħmadd	jsaafer	Sala	mas ^s er
	perhaps charact	eristically	Ahmad	travel.3SG.M	to	Egypt

The fact that irrealis adverbs precede the generic/prospective adverbial complies with the UAH.

Finally, the high possibility adverbial *Sala ?al?aylab* 'possibly' should precede the low voice adverb *mni:* \hbar 'well,' (see 34a). The opposite word order between these two adverbs is not accepted, as it leads to the sentence being ungrammatical, (see 34b). (*Sala ?al?aylab mni:* \hbar).

(34)

a.	Sala ?al?aylab	mni:ħ	?aħmado	1
	possibly	well	Ahmad	
	fihem	?ad-dars	(mni:ħ)	
	understood.3SG.M	DEF-lesson	(well)	
	"Possibly, well Ahmad un	derstood the lesso	n."	
b.*n	niːħ	Sala ?al?aylab		?aħmadd
	well	possibly		Ahmad
	fihem	?ad-dars		(mni:ħ)
	understood.3SG.M	DEF-lesson		(well)

Note that $mni:\hbar$ 'well' can occupy a final sentence position as a manner adverb; yet, it can move to the left of the subject to express the interpretation of the voice.

4.3 relative order of high adverbs with respect to each other

In this section, the word order of high adverbs is explored with reference to each other. Based on the comparison of JA high adverbs; it is found that high adverbs/adverbials have a rigid order between themselves which strictly complies with the UAH.

The speech act adverb $2ibs^{c}ara:\hbar a$ 'frankly'should precede the evaluative adverb $li\hbar usn l\hbar a\delta^{c}$ 'fortunately.' This fact is evidenced by the following pair, ($2ibs^{c}ara:\hbar a > li\hbar usn l\hbar a\delta^{c}$).

- (2	5	2
	э	J	

a.	?ibs ^s ara:ħa	līhusn lhað ^s	?aħmadd	?i∬tara	sajjaara		
	frankly	fortunately	Ahmad	bought.3SG.M	car		
	"Frankly, fortunately Ahmad bought a car."						
b.	*lıħusn lħað ^ç	bs ^s ara:ħa	?aħmadd	?i∬tara	sajjaara		
	fortunately	frankly	Ahmad	bought.3SG.M	car		

Let us, at this point, examine the relative order of $li\hbar usn l\hbar a\delta^{\varsigma}$ 'fortunately' with the evidentiality marker *fikil* 'evidently.' According to Cinque's UAH, the former should precede the latter; otherwise, the resulting sentence would be ungrammatical, which is the case (*liħusn lħað^s/fikil*).

(36)

· · ·					
a.	lıħusn lħað ^ç	∫ıkıl	?al-binet	?ı∬tara-t	sajjaara
	fortunately	evidently	DEF-girl	bought-3SG.F	car
	"Fortunately, the	young girl eviden	tly bought a car."		
b.	∫ıkıl	līhusn lhað ^ç	?al-binet	?ı∬tara-t	sajjaara
	fortunately	evidently	the-girl	bought-3SG.F	car

By transitivity, it can be proposed $2ibs^{c}ara:\hbar a$ 'frankly' is higher in the tree than the two adverbs *fikil* 'evidently' and *lihusn lhað*' fortunately.'

The evidentiality marker *fikil* 'evidently' precedes the epistemic adverb *jemkin* 'probably' which appears right under $Mood_{Evidential}$ Phrasein Cinque's AUH. Consider the following pair, (*fikil* > *jemkin*).

(37)						
a.	∫ıkıl-hum		jemkin	jsaafer-u		Sala	mas ^s er
	evidently-31	PL.M	probabl	y travel-3P	L.M/F	to	Egypt
"Ev	vidently, proba	bly they trave	el to Egyp	ot."			
b.	*jemken	∫îkīl-hum		jsaafer-u	Sala	mas ^s er	
	probably	evidently-3	PL.M	travel-3PL.M	to	Egypt	

Let us now compare the order of *jemkin* 'probably' with the past-tense high adverb *zamaan* 'once.' The adverb *jemkin* mainly precedes *zamaan*; otherwise, the resulting sentence would be ungrammatical, which is the case (*jemkin>zamaan*).

(38)

a.	jemkin	zamaan	?ız-zalamah	saːfar	Sala	mas ^s er
	probably	once	DEF-man	travelled.3SC	G.M to	Egypt
"Probably, once the man travelled to Egypt."						
b.	*zamaan	jemkin	?ız-zalameh	saːfar	Sala	mas ^s er
	once	probably	DEF-man	travelled.3SG	i.M to	Egypt

Consider now the relative order of the past tense *zamaan* 'once' and the future-tense adverbial *basdem* 'then.' The adverb *zamaan* should precedes *basdem*, as shown in the following examples, (*zamaan >basdem*). (Note that there is a short pause between *zamaan* and *basdem*).

1	2	O	١
L	э	7	,

a.	zamaan,	basdein	?aħmadd		
	once	then	Ahmad		
	?itxxarrad3	mīn	?il-dʒaamʕa		
	graduated.3SG.M	from DEF-universit			
	"Once, then Ahmad graduated from the university."				

b.	* basdem	zamaan	?aħmadd?	itxxarradʒ	mīn	?il-dʒaamʕa
	then	once	Ahmad	graduated.3SG.M	from	DEF-university

Additionally, the future-tense adverbial *basdem* 'then' should precede the irrealis adverb *2thtimaal*'perhaps', something that attests Cinque's model. Consider the following examples, (*basdem* > *2thtimaal*).

(40)

a.	baSdein	?ıħtımaal	(?aħmadd)	sa:far	Sala	mas ^s er
	then	perhaps	Ahmad	travelled.3SG.M	to	Egypt
	"Perhaps, then A	hmad travelled to	Egypt."			
b.	*?ıħtımaal	baSdein	(?aħmadd)	sa:fara	Sala	mas ^s er
	perhaps	then	Ahmad	travelled.3SG.F	to	Egypt

Furtherrore, the irrealis adverb 21/httmaal 'perhaps' should precede necessity adverb laazem 'necessarily' (21/httmaal >laazem).

(42)

(41))						
a.	?ıħtımaal	laazem	?aħmadd	jsaafer	bukra		
	perhaps	necessarily	Ahmad	travel.3SG.M	tomorrow		
"Pe	"Perhaps, necessarily Ahmad travels tomorrow."						
b.	*laazem	?ıħtımaal	?aħmadd	jsaafer	bukra		
	necessarily	perhaps	Ahmad	travel.3SG.M	tomorrow		

Finally, compare the necessity adverb *laazem* 'necessarily' with the modal possibility adverbial *sala 2al2aylab* 'possibly' which are the last low adverbs/adverbials among the high adverbs of AUH. In JA, it appears that the necessity adverb *laazem* 'necessarily' precedes *sala 2al2aylab*otherwise, the resulting sentence would be ungrammatical, as clearly shown in the following instances, (*laazem*>*sala l2aylab*).

()				
a.	laazem	Sala ?al?aylab	Salma	tsaafer	bukra
	necessarily	possibly	Salma	travel. 3SG.F	tomorrow
	"Necessarily, poss	ibly Salma will tra	avel tomorrow."		
b.	* Sala ?al?aylab	laazem	salma	tsaafer	bukra
	possibly	necessarily	Salma	travel.3SG.F	tomorrow

The order of JA high adverbs/adverbials is presented in the following hierarchy: (43)

 $2ibs^{c}ara:\hbar a > li\hbar usn l\hbar a\delta^{c} > fikil > jemkin > zamaan > baSdein > 2i\hbar timaal > laazem > Sala 2al2aylab.$

The hierarchy in (43) demonstrates clearly that Cinque's proposal is amenable to JA facts as it predicts successfully the actual order between high adverbs in JA.

Based on the facts discussed above, a hierarchy that comprises JA high and low adverbs is schematized in (44). (44)

 $2ibs^{c}ara:\hbar a \text{ Mood}_{speech act} > li\hbar a\delta^{c} \text{ Mood}_{evaluative} > fikil \text{ Mood}_{evidential} > jemkin \text{ Mod}_{epistemic} > zamaan \text{ once T} (Past) > bas^{c}dein T (Future) > 2i\hbar timaal \text{ Mood}_{irrealis} > laazem \text{ Mod}_{necessity} > sala 2al^{2}aylab \text{ Mod}_{possibility} > saadatan / sala t^{c}uul \text{ Asp}_{habitaual} > yaaliban \text{ Asp}_{frequentative} > sammdan \text{ Mood}_{volitional} > 2ibsursa \text{ Asp}_{celerative}(I) > daajman \text{ Asp}_{perfect} > fawwran \text{ Asp}_{durative} > biðaat \text{ Asp}_{generic/progressive} > tamaaman \text{ Asp}_{completive} > mni:\hbar Voice > bsursa \text{ Asp}_{celerative}(II).$

The hierarchy in (44) confirms that adverbs (or corresponding adverbials) in JA are sequenced in a relative fixed order as they do not occur in the sentence randomly. This observation is clearly consistent with Cinque's AUH. This fixed order between high adverbs and low adverbs indicate that JA is a configurational language as the high functional area of a clause does not intersect with the low functional area.

5. Conclusion

This study has examined the hierarchy of adverbs and adverbials in JA, using Cinque's (1999) UAH, as the theoretical framework. It has provided evidence that, in JA, there are low and high adverbs which follow the UAH, as proposed by Cinque. This study has shown that low adverbs c-command the negative particle *maa*. Although this fact runs counter to corresponding facts in Italian and French, it shows that negation does not have a rigid position in natural languages, but it is subject to language-internal rules. Additionally, this study has explored the relative order of JA low adverbs with respect to each other. The discussion has revealed that low adverbs comply rigidly with the universal order as proposed by Cinque. The same assumption has been drawn to high adverbs in JA whose order is also consistent with Cinque's proposal.

The findings of this study have supported Cinque's (1999) UAH which is shown to be data-motivated. JA provides

typological support to this hierarchy whose UG-status is thus strengthened. Moreover, this study has provided evidence that the form of the elements that fill Spec positions of the functional phrases of Cinque's model does not affect the hierarchy itself. JA adverbials are ordered in the same way corresponding with adverbs in other languages are. This indicates that adverbials can be used to replace adverbs and their functions in natural languages (see Larson 1985, along these lines).

REFERENCES

- Alexiadou, A. Anagnostopoulou, E. and Schäfer, F., (2015), *External arguments in transitivity alternations: A layering approach*, (Vol. 55). Oxford Studies in Theoretical Linguistics.
- Alexiadou, A. (1997), Adverb Placement: A Case Study in Antisymmetric Syntax. Linguistik Aktuell/Linguistics Today 18, Amsterdam: John Benjamins.
- Al-Momani, I. (2011), The syntax of sentential negation in Jordanian Arabic. *Theory and Practice in Language Studies* (1): 482-496.
- Alqassas, A. (2015), Negation, tense and NPIs in Jordanian Arabic. Lingua (156): 101-128.

Baker, C. (1981), Auxiliary-adverb word order. Linguistic Inquiry 12(2): 309-315.

- Bellert, A. (1977), On semantic and distributional properties of sentential adverbs. Linguistic Inquiry 8(2): 337–351.
- Benmamoun, E. (2000), *The feature structure of functional categories: a comparative study of Arabic dialects*, Oxford: Oxford University Press. Cambridge.

Chomsky, N. (1957), Syntactic Structures, Mouton: The Hague.

- Cinque, G. (1994), Paths towards Universal Grammar, Studies in Honorof Richard S. Kayne. Georgetown University Press, Washington, D.C.
- Cinque, G. (1999), Adverbs and Functional Heads: A Cross-Linguistic Perspective, Oxford: OUP.
- Cinque, G. and Rizzi, L. (2008), The cartography of syntactic structures. In V. Moscati (ed.) *Studies in linguistics: CISCL, working studys on language and cognition*, (vol. 2), Universita Degli Studi Di Siena. 43-59.
- Comrie, Bernard (1976), Aspect. Cambridge University Press, Cambridge.
- Costa, J. (1996), Adverb positioning and V-movement in English: Some more evidence, Studia Linguistica (501): 22-34.
- El-Yassin, M. (1985). Basic Word Order in Classical Arabic and Jordanian Arabic. Lingua (65): 197-207.
- Ernst, T. (1984), Towards an Integrated Theory of Adverb Positions in English, Bloomington IN: Indiana University Linguistics Club.
- Ernst, T. (2002), The syntax of adverbial distribution in the low clause. Lingua, 114, 755-778.
- Fassi Fehri, A. (1993), Issues in the Structure of Arabic Clauses and Words, Kluwer, Dordrecht.
- Fassi Fehri, A. (2012), Key features and parameters in Arabic grammar, (Vol. 182). Amsterdam: John Benjamins.
- Haegeman, L. (2012), Adverbial clauses, main clause phenomena, and composition of the left periphery. *The cartography of syntactic structures*, (Vol. 8). Oxford University Press.
- Haider, H. (2000), Adverb placement convergence of structure and licensing. *Theoretical Linguistics*, 26(1): 95–134.
- Jackendoff, R. (1972), Semantic Interpretation in Generative Grammar, Cambridge MA: The MIT Press.
- Jarrah, M. (2017a), Subject extraction in Jordanian Arabic, Ph.D. dissertation, Newcastle University.
- Jarrah, M. (2017b), A Criterial Freezing approach to subject extraction in Jordanian Arabic. Canadian Journal of Linguistics/Revue Canadienne de linguistique, 62 (3): 411-448.
- Jarrah, M. (2017c), Temporal/locative inversion in Arabic. Yearbook of the Poznan Linguistic Meeting, 3(1): 117-140.
- Jarrah, M. (2019a). Record your agree: A case study of the Arabic complementizer *?inn. Journal of Linguistics*, 55(1), 83-122.
- Jarrah, M. (2019b). Factivity and subject extraction in Jordanian Arabic. Lingua, 219, 106-126.

Jarrah, M. and Alshamari M. (2017), The syntax of the evidential particle *fikil* in Jordanian Arabic. *Italian Journal of Linguistics*, 29.

Kayne, R. (1994), The Antisymmetry of Syntax. MIT Press, Cambridge, Mass. Lingua, (65): 197-207.

Larson, R. (1985), Bare-NP adverbs. Linguistic inquiry 16(4): 595-621.

- Musabhien, M. (2009), Case, agreement and movement in Arabic: a minimalist approach, Ph.D. dissertation: Newcastle University.
- Omari, O. (2011), Grammatical subjects of Jordanian Arabic: Syntactic and discourse functions, Ph.D. dissertation: Memorial University of Newfoundland.

Wiltschko, M. (2014), The universal structure of categories: Towards a formal typology, (Vol. 142). Cambridge University Press.

هرمية الظروف في اللهجة الأردنية: منهج تشنك

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ملخص

تناقش هذه الدراسة هرمية الظروف في اللهجة الأردني، اعتماداً على هرمية الظروف الكلية للعالم الإيطالي تشنكوا (Cinque's (1999) Universal Adverb Hierarchy (UAH). وتتناول الدراسة بالتحديد مدى اتساق اللهجة الأردنية بهذه الهرمية التي تعد منهجاً معتمد في مجال البحث في موقع الظروف في لغات العالم، وتشير نتائج هذه الدراسة إلى صحة الهرمية، إذ من الواضح أنه يوجد ترتيب محدد بين الظروف في اللهجة الأردنية، وتشير نتائج هذه الدراسة أيضاً إلى أن الهرمية لا تتأثر بالشكل الصرفي للكلمة/التعبير الذي يملأ طرف (Specifier position) التراكيب الوظائفية (Functional Projections) إلى تشكل بمجموعها هرمية الظروف الكلية.

الكلمات الدالة: هرمية الظروف، النفى، الزمن، العربية.

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