

## Arabic grammatical treatment of *ʿin* conditional systems: traces of an external influence?

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### Background

Manuela has published a number of papers on traditional treatment of conditional sentences, for example:

Manuela E. B. Giolfo, 'A modal interpretation of the Arabic apocopate: morpho-syntax and semantics', in *Arab and Arabic Linguistics: Traditional and New Theoretical Approaches*, ed. Giolfo, *Journal of Semitic Studies* Supplement 34 (2014) 119–143.

Manuela E. B. Giolfo, 'Real and unreal conditionals in Arabic Grammar: from al-'Astarābādī to Sībawayhi', in *The Foundations of Arabic Linguistics II*, ed. Marogy and Versteegh, Brill, Leiden 2015, pp. 100-119.



More recently Manuela and Wilfrid have published joint papers on semantic aspects of traditional Arabic grammar, including one on conditionals:

Manuela E. B. Giolfo and Wilfrid Hodges, 'Conditionality: Syntax and meaning in al-Sīrāfī and Ibn Sīnā', in *The Foundations of Arabic Linguistics IV*, ed. Giolfo and Versteegh, Brill, Leiden 2019, pp. 157–181.

Manuela suggested that the Henry Sweet meeting would be an opportunity to integrate the ideas in these papers. Unfortunately the timing was wrong and they are not yet integrated. But we can lay out some of the main issues.



### The major divide

Manuela's papers address a difference between Sībawayhi (8th century) and Zamahṣarī (c. 1100) about what particles count as 'conditional' (*ṣarṭī*).

For Sībawayhi a conditional particle must involve uncertainty (*mubham*) and it must put the verb of the consequent clause into the apocopate; the apocopate represents the uncertainty.

Hence *law*, which normally doesn't take the apocopate, is not a conditional particle.



Sībawayhi counts *ʾin* as the major conditional particle, but in his main treatment of *ʾin* he mentions only the construction

(i) *ʾin yaqum yaqum* (i.e. *ʾin* + apocopate + apocopate).

By contrast Zamaḥṣarī (in his *Mufaṣṣal* and his *Unmūdağ*) considered both *ʾin* and *law* as conditional particles, and he mentioned four constructions with *ʾin*.

To (i) above Zamaḥṣarī added

(ii) *ʾin qāma yaqum* (i.e. *ʾin* + *māḍī* + apocopate).

(iii) *ʾin yaqum qāma* (i.e. *ʾin* + apocopate + *māḍī*)

(iv) *ʾin qāma qāma* (i.e. *ʾin* + *māḍī* + *māḍī*)

His successors (Ibn al-Ḥāḡib, Astarābādī, Ibn Yaʿīš) followed and elaborated this new account.

In her papers Manuela suggested the following interpretation of these facts.

- ▶ ‘Uncertain’ means: could be true and could be false, i.e. contingent.
- ▶ Aristotle uses his words for ‘contingent’, i.e. *dunatón* and *endekhómenon*, also for ‘possible’ (i.e. not impossible).
- ▶ Zamaḥṣarī switched to regarding the characteristic of *ʾin* as ‘not impossible’ rather than ‘contingent’.
- ▶ Knowledge of Aristotle’s double usage could have inspired or encouraged this change.

The question of Greek influence on Arabic linguistics is famously difficult.

There is very little direct evidence.

But Zamaḥṣarī with his Muʿtazilite connections was perhaps more open to influence from Greek logic than other more orthodox Muslims.

It is also plausible that in the 11th century any influence from Greek logic would have come from Arabic Peripatetics (al-Fārābī, Ibn Sīnā) rather than direct from Aristotle.

We propose to look closer at the differences between the Sībawayhi view and the Zamaḥṣarī view, to understand better what influences would have been relevant to them.

### Past and future as modes

Zamaḥṣarī in *Mufaṣṣal* iii introduces *ʿin* and *law* with no direct reference to either uncertainty or possibility. Instead his first paragraph distinguishes between *ʿin* and *law* in terms of their relationship to past and future. His later commentators dwell on this point.



Following Astarābādī, Manuela (2015) has suggested that ‘future’ and ‘past’ should be read here modally rather than temporally.

The suggestion is that there is a kind of ‘past’ that consists in being definitely the case or definitely not the case.

In this sense, taking the Qurʾān verbs as past means reading the quotation as implying that the Prophet would *never* simply follow people’s wishes without regard for their welfare.

Zamaḥṣarī’s comment implies that we read the verse as past in this sense, regardless of the form of the verb.

Ibn Yaʿīš says almost exactly this.



Thus he says:

*wa-law taḡ<sup>c</sup>alu-hu li-l-mādī wa-ʿin kāna mustaqbalan ka-qawli-hi taʿālā: wa-law yuṭī<sup>c</sup>u-kum fī kaṭīrin min al-ʿamri la-ʿanittum.*

“And you take *law* with the past even if it is future, as in the Almighty’s statement: ‘And if [the Prophet] will follow you in many things, it will hurt you’.”

What does he mean by ‘you take *law* with the past’? Syntactically the verbs are both *muḍāri<sup>c</sup> marfū<sup>c</sup>*, suggesting future reference.

Semantically, the sentence is not only about the past.



Aristotle in *De Interpretatione* ix mentions problems about future contingents; there is little here to suggest identifying future with possible.

In classical Greek philosophy the identification was more often associated with the freelance thinker Diodorus Cronus, a little later than Aristotle.

Zamaḥṣarī had probably never heard of him.

But Zamaḥṣarī could have read one of al-Fārābī’s commentaries on the *De Interpretatione*.

He would have read:



“Pairs of contradictory statements about matters of necessity are one true and the other false, intrinsically and specifically. . . . By contrast, future matters of possibility—like ‘Zayd will go to the market tomorrow’ and ‘Zayd will not go to the market tomorrow’—are one true and the other false, but not specifically this one true and that one false. For it is not possible that truth should definitely attach to this particular one of them and falsity to this particular other one in such a way as to make it impossible for the true one to be false and the false one to be true.”

(tr. based on Zimmermann *Al-Fārābī's Commentary* p. 244f.)

### Conditionals and classes of events

There is another difference between Sībawayhi's treatment of conditionals and that in Zamaḥṣarī, which relates to logic in a more complicated way.

Zamaḥṣarī describes a conditional particle as relating *ḡumlatayni*, i.e. two clauses.

By contrast Sībawayhi, both when he is giving his own views and when he is reporting discussions with al-Ḥalīl, tends to regard a conditional particle as relating *two classes of events*.

Thus al-Ḥalīl contrasts the two sentences

- ▶ I will come to you if the dates turn red.
- ▶ I will come to you when the dates turn red.

Both sentences correlate the events A of the form ‘the dates turn red’ and B of the form ‘I will come to you’. Both state a temporal connection: the first occurrence of A will be followed by an occurrence of B.

The difference is that the second sentence implies that an event A will occur, whereas the first leaves this ‘uncertain’ (*mubham*).

With this analysis al-Ḥalīl has opened up rich possibilities for analysing different kinds of conditional, in terms of how the class A is described, what is assumed about it, and so on.

In Giolfo and Hodges (2019) we discussed this in detail, pointing out the resemblance to the Lewis-Kratzer theory of conditionals, according to which the main role of ‘If’ and ‘When’ is to allow us to refer to a class of events.

Al-Sīrāfī developed this approach to conditionals, and similar ideas are found (probably independently) in Ibn Sīnā.

But see the effect of Zamaḥṣarī's introduction of future and past as modalities.

This approach blocks discussion of the temporal relationships between antecedent and consequent, and hence suggests an abandonment of the Ḥalīl-Sībawayhi analysis.



An obvious question is whether the earlier work was really abandoned, or whether the successors of Zamaḥṣarī found some other way of expressing it. We have not yet found time to investigate this.

But it may be relevant to note that Ibn ʿAqīl (in his *Šarḥ ʿalfiyya*) adds to the conditional forms

*ʿin qāma yaqūmu*

which suggests an interest in comparing the conditional and temporal aspects.



Returning to possible influences on Zamaḥṣarī from Greek philosophy:

If (and we say no more than if) Zamaḥṣarī was influenced by al-Fārābī's modal view of past and future, then this caused Zamaḥṣarī and his successors to turn away from the kind of analysis of conditionals that we find in al-Fārābī's illustrious successor Ibn Sīnā.

At present we have no information at all about whether Zamaḥṣarī etc. were aware of Ibn Sīnā's contributions.

