



# Complex numerals in Mandarin Chinese are constituents

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## Abstract

In this article, three types of data from syntax, semantics, and morpho-phonology are presented to argue that [Ionin and Matushansky's \(IM, 2006\)](#) non-constituency analysis of complex numerals may not work in Mandarin Chinese and that the traditional constituency analysis is more plausible. In order to address these data under the constituency analysis, we propose and justify a fine-grained phrase structure for complex numerals in Mandarin Chinese, which can accommodate all these data satisfactorily. We also investigate the cross-linguistic implications of our argumentation by showing that similar morpho-phonological data in many minority languages of China also support the constituency analysis for complex numerals.

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## 1. Introduction

Since [Hurford's \(1975\)](#) seminal work on the linguistic theory of numerals, it has been generally agreed that complex numerals like *five hundred* (multiplicative) and *fifty two* (additive) are phrasal constituents (the constituency analysis). This view has been widely accepted and defended, implicitly or explicitly, as a null hypothesis for the syntactic studies of complex numerals ([Jackendoff, 1977](#); [Selkirk, 1977](#); [Borer, 2005](#); [Corver and Zwarts, 2006](#); [Kayne, 2010](#), among others), until it was challenged by some other studies. For example, [Ionin and Matushansky \(IM, 2006\)](#) proposed a novel syntactic analysis toward complex numerals, mainly based on the following case marking data in Russian (and some other languages).

- (1) a. četyre šagá IM's (30a)  
four step<sub>GEN.SG</sub>  
'four steps'
- b. šest' šagov IM's (30b)  
six step<sub>GEN.PL</sub>  
'six steps'

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