



New bushcrickets of the tribe Meconematini (Orthoptera, Tettigoniidae, Meconematinae) from China

FU-MING SHI, XUN BIAN & YAN-LIN CHANG

College of Life Sciences, Hebei University, Baoding, 071002, P. R. China. E-mail: shfmi@yahoo.com.cn, shif_m@126.com

Abstract

Two new genera and two new species of meconematine tettigoniids are described from China, i.e. *Sinodecma* Shi, Bian & Chang **gen. nov.**, *Shoveliteratura* Shi, Bian & Chang **gen. nov.**, *Sinodecma acuta* Shi, Bian & Chang **sp. nov.** and *Shoveliteratura triangula* Shi, Bian & Chang **sp. nov.**. The type specimens are kept in the Museum of Hebei University.

Key words: Meconematinae, *Sinodecma*, *Shoveliteratura*, new genus, new species, China

Introduction

The tribe Meconematini includes more than half species of the subfamily Meconematinae. We agree with Gorochov's viewpoints, that the generic classification of the tribe Meconematini is in its initial stages, the tribe seems diverse, and many species and genera have limited geographic distributions. Gorochov (1993, 1998) reviewed the Meconematini, and established some new genera, most of which were separated from the genus *Xiphidiopsis*, according to the morphology of male tenth abdominal tergite, cerci and genitalia. Liu (2000), Liu & Zhang (2000), Gorochov, Kang and Liu (2005) reported some new genera and new species from China and raised some subgenera to generic status. Gorochov (2008) also described taxa (including new genera and species) from south-east Asia.

Yamasaki (1982) erected the genus *Leptoteratura* based on morphology of fastigium verticis, male abdominal tergites and cerci. Gorochov (1988) discussed the type of head, morphology of fastigium verticis and fastigium frontis. The fastigium verticis of most genera of the tribe is conical, apices obtuse, but fastigium verticis of *Leptoteratura* is flat. The fastigium verticis of the two new genera is different from these of known genera.

In this paper, two new genera i.e. *Sinodecma* Shi, Bian & Chang **gen. nov.** and *Shoveliteratura* Shi, Bian & Chang **gen. nov.** are described, at the same time, two new species are described from China. The type materials are deposited in the Museum of Hebei University.

1. *Sinodecma* Shi, Bian & Chang **gen. nov.**

Generic diagnosis. Body comparatively large. Fastigium verticis protruding, long, comparatively compressed laterally, apex acute (female slightly obtuse). Eyes globular, obviously protruding forward. Apical segment of maxillary palpi as long as subapical one, apex slightly enlarged. Pronotum short and broad, posterior transverse sulcus distinct, metazona raised slightly, humeral sinus comparatively distinct. Tibial tympana open on internal and external sides. Thoracic auditory spiracle comparatively large. Tegmina and hind wings almost equal in long, surpassing apices of postfemora. Male tenth abdominal tergite comparatively narrow, posterior margin protruding, without paired processes. Male genitalia sclerotized, and with a pair of titillators. Male cerci long, with broad lobe on basal area. Male subgenital plate with base broad, apical part narrowing. Styli short and small.

Discussion. The new genus resembles *Decma* Gorochov, 1993, it differs from the latter in: fastigium verticis protruding, long, comparatively compressed laterally, apex acute; pronotum short and broad, metazona raised slightly; male genitalia sclerotized, cerci long, with a broad lobe on inner basal area.