



Four new species of Nemobiinae from China (Orthoptera, Gryllidae, Nemobiinae)

KAI LI^{1,3}, ZHUQING HE¹ & XIANWEI LIU²

¹School of Life Science, East China Normal University, Shanghai, 200062, China. co-first author

²Shanghai Entomological Museum, Chinese Academy of Science, Shanghai, 200032, China. E-mail: liuxianwei2008@163.com

³Corresponding author. E-mail: kaili@admin.ecnu.edu.cn

Abstract

Four new species of the cricket subfamily Nemobiinae from China are described. They are *Homonemobius nigrus* sp. nov., *Speonemobius sinensis* sp. nov., *Polionemobius annulicornis* sp. nov. and *Pteronemobius yunnanicus* sp. nov. All type specimens are deposited in East China Normal University, Biology of History Museum (HSNU); Shanghai Entomological Museum (IEAS) and Shanghai Normal University (SHNUC).

Key words: Orthoptera, Gryllidae, Nemobiinae, *Speonemobius*, *Homonemobius*, *Polionemobius*, *Pteronemobius*, taxonomy, new species

Introduction

The subfamily Nemobiinae includes 51 genera and about 291 known species. The largest genus, *Pteronemobius*, includes 100 species. This subfamily differs from the Trigonidiinae in the characters of hind tibiae being distinctly shorter than those of the hind femora and the second tarsal segment compressed. Thus far, four genera (*Marinemobius*, *Dianemobius*, *Polionemobius* and *Pteronemobius*) and 17 species have been reported from China. In this paper, four new species are described (*Homonemobius nigrus* sp. nov., *Speonemobius sinensis* sp. nov., *Polionemobius annulicornis* sp. nov., *Pteronemobius yunnanicus* sp. nov.) and the two genera *Speonemobius* and *Homonemobius* are first recorded from China.

1. *Homonemobius nigrus* sp. nov.

(Figs. 1–4)

Material. Holotype ♂, CHINA: Yunnan prov. Jinghong county, Nabanhe Benggangxinzhai, 2009.V.3, Alt. 1750m, leg. Hu Jia-Yao & Yin Zi-Wei (IEAS); Paratypes 1 ♀, CHINA: Yunnan prov. Jinghong county, Nabanhe Benggangxinzhai, 2009.V.4, Alt. 1850m, leg. Hu Jia-Yao & Yin Zi-Wei; 2 ♂♂, 3 ♀♀, CHINA: Yunnan prov. Jinghong county, NabanheGuomenshan, 2009.V.8, Alt. 1200m, leg. Hu Jia-Yao & Yin Zi-Wei; 1 ♂, CHINA: Yunnan prov. Nabanhe N. R. Bengganghuni 2009.IV.29, Alt. 2000m, leg. Hu Jia-Yao & Yin Zi-Wei (SHNUC).

Description. Male. Body small and pubescent. Head as wide as pronotum, frontal rostrum as wide as 1st antennal joint. 5th joint of maxillary palpi longest. Pronotum feebly transverse, anterior margin as wide as posterior margin. No tympanum on fore tibiae. Hind tibia with three external dorsal spurs and four internal dorsal spurs; the proximal internal spurs short and stout (Fig. 2), apex with six apical spurs. Tegmen short and glossy, with five veins on dorsal field and four veins on lateral field (Fig. 1). No mirror and wings absent. Genitalia of male as in Figs. 3–4.