

# **Article**



# Two new species of Amphinemura (Plecoptera: Nemouridae) from China

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#### **Abstract**

Two new species of the genus *Amphinemura* from Ningxia and Zhejiang, China are described: *A. ningxiana* **sp. n.** and *A. tianmushana* **sp. n.** Their taxonomic relationships with related species are discussed.

Key words: Plecoptera, Nemouridae, Amphinemura, new species, China

### Introduction

Amphinemura is the largest genus in the subfamily Amphinemurinae with at least 175 species recognized from the Oriental and Holarctic Regions (DeWalt *et al.* 2011). The Chinese *Amphinemura* species were described by Wu (1935, 1938, 1962, 1973), Yang *et al.* (2005), Yang *et al.* (2005), Li *et al.* (2005), Wang *et al.* (2006), Wang *et al.* (2007), Zhu and Yang (2002, 2003), Du and Wang (2007), Du *et al.* (2007), and Li and Yang (2005, 2006, 2007, 2008a, b, c, d, e). In the present paper, two additional species from China are described as new to science. The studied material is deposited in the Entomological Museum of China Agricultural University (CAU), Beijing and Henan Institute of Science and Technology (HIST), Xinxiang, respectively. Types of the new species are preserved in 75% ethanol. The morphological terminology follows that of Baumann (1975).

## **Taxonomy**

Amphinemura ningxiana Li & Yang, sp. nov.

(Figs. 1-5)

**Diagnosis.** The adult males of this new species are characterized by the dorsal sclerite of epiproct with two darkly sclerotized lateral bands which extend apically forming two darkly sclerotized, finger-shaped lateral arms with tiny terminal spines and an adjacent subapical plate ventrolaterally; the ventral sclerite forms an erect, elongate, sharp ventral ridge (Figs. 1–5).

**Description.** Forewing length 4.1–4.3 mm, hind wing length 3.0–3.2 mm (n=3). Head and appendages dark brown, with compound eyes black and maxillary palpi pale brown. Thorax brown, pronotum subrectangular with cuticular rugosities, corners obtuse; legs brown. Wing membranes hyaline with veins dark brown. Abdomen yellowish brown; hairs on abdomen mostly pale.

Male terminalia (Figs. 1–5): Tergum VIII with medially interrupted antecosta. Tergum IX weakly sclerotized, with broad triangular anterior and posterior indentations, row of tiny spines medially and several long bristles paramedially located along posterior margin. Sternum IX with claviform vesicle slightly swollen subapically;