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Synopsis of the antlion genus *Deutoleon* Navás, 1927 in China (Neuroptera: Myrmeleontidae)

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Abstract

A synopsis of the genus *Deutoleon* Navás, 1927 (Neuroptera: Myrmeleontidae) is presented. The little known species *Deutoleon turanicus* Navás, 1927 is newly recorded from China. Two species of *Deutoleon* are redescribed and illustrated in detail, including the female of *D. turanicus*. A key to species of *Deutoleon* is provided.

Key words: Myrmeleontidae, Nemoleontini

Introduction

Deutoleon Navás, 1927 is a relatively small genus of antlions (Insecta: Myrmeleontidae) in the Palaearctic region. According to the classification system of Stange (2004), *Deutoleon* belongs to the tribe Nemoleontini Banks, 1911, and is closely related to the genus *Distoleon* Banks, 1910. The key diagnostic character for *Deutoleon* is two presectoral crossveins in the hindwing, compared with *Distoleon* which has only one presectoral crossvein. *Deutoleon* includes two species, *Deutoleon turanicus* Navás, 1927, occurring in Mongolia and Turkey, and *Deutoleon lineatus* (Fabricius), 1798, throughout Europe to northern Asia (Aspöck *et al.* 1980, 2001; Stange 2004). Adults of *D. lineatus* were described in detail by Kis *et al.* (1970). Navás (1927) described the male of *D. turanicus* without discussing the difference between male and female. Papers that have since dealt with this species are those of Hölzel (1970a, b), Krivokhatsky (1996), Ari *et al.* (2007) and Canbulat (2007).

Recently, we examined antlion specimens deposited in the Insect Collection of China Agricultural University. Two *Deutoleon* species were identified: *D. turanicus* and *D. lineatus*. *D. turanicus* is newly recorded from China and the female is described for the first time. Both species are redescribed and illustrated.

Material and methods

Terminology of wing venation follows Wang *et al.* (2003), while genitalia terminology follows Stange (1994). Photographs of partial morphological characteristics are taken by a Canon EOS 500D digital camera connected with Olympus U-CTR30-2 microscope and UV-C (Application Suite) applied software by United Vision Ltd. Photographs of habitus are taken by a Nikon COOLPIX4500 digital camera. And all figures are processed in Adobe Photoshop CS5.

All specimens examined are deposited in the Insect Collections of China Agricultural University (ICCAU), Beijing, China.

Deutoleon Navás, 1927

Deutoleon Navás, 1927: 19. Type species: *Deutoleon turanicus* Navás, 1927, by original designation.

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