



## Two new species of *Deois* Fennah, 1949 (Hemiptera: Cercopidae) from Brazil

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### Abstract

Two new species of *Deois* Fennah (Hemiptera: Cercopidae), *Deois (Deois) bisignata* Carvalho **sp. nov.** and *Deois (Deois) quadrisignata* Teixeira **sp. nov.**, are described and illustrated from central Brazil.

**Key words:** Auchenorrhyncha, spittlebug, taxonomy, Neotropical region

### Introduction

*Deois* Fennah, 1949 (Hemiptera: Cercopidae) includes 22 valid species distributed in 4 subgenera (*Acanthodeois* Sakakibara, 1979; *Deois* s. str.; *Fennahia* Sakakibara, 1979; and *Pandysia* Fennah, 1953) in the Neotropical region (Carvalho and Webb 2005). Species of the genus can be distinguished from other cercopids in the Neotropical region by the following characters: posclypeus in antero-frontal view ovoid, rounded profile, and inflated; wing with Cu<sub>1</sub> abruptly widening basally; pygofer normally with two (sometimes one) posterolateral lobes (teeth), with the lower lobe developed. Aedeagus with apex usually bifid, dorsal region smooth, jagged or with a pair of processes. In this paper we add two new species from central Brazil to the genus.

### Material and methods

The specimens studied herein are deposited in the following Institutions: The Natural History Museum, London, U.K. (BMNH); Departamento de Zoologia, Universidade Federal do Paraná, Curitiba, Brazil (DZUP); Museu de Ciências e Tecnologia, Pontifícia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil (MCTP); and Museu de Zoologia da Universidade de São Paulo, São Paulo, Brazil (MZSP).

The morphological terminology follows Fennah (1968). Measurements were taken with an eyepiece micrometer. Photographs were obtained with a Leica DFC 500 digital camera attached to the stereoscopic microscope Leica MZ 16 and the genitalia structures with a scanning electron microscope (MEV-Philips modelo XL 30) at the Centro de Microscopia e Microanálises (CEMM) of Pontifícia Universidade Católica do Rio Grande do Sul, Brazil.

The authorship of each species is listed. The reason for this assignment is in the independent discovery of each new species.

### Taxonomic descriptions

#### *Deois (Deois) bisignata* Carvalho **sp. nov.**

(Figs 1–7)

**Measurements (mm).** 8 males/10 females: total length, 7.31/7.69; head length, 0.77/0.88; head width, 1.08/1.24; pronotum length, 1.44/1.58; pronotum width, 2.37/2.57; scutellum length, 1.28/1.41; scutellum width, 1.01/1.17; tegmina length, 5.62/5.95; tegmina width, 1.91/1.95.