



A review of *Tylostega* Meyrick from Mainland China (Lepidoptera, Crambidae, Spilomelinae), with descriptions of four new species

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Abstract

Five species of the genus *Tylostega* Meyrick are recorded from China. Among them, *T. pectinata* **sp. nov.**, *T. luniformis* **sp. nov.**, *T. lata* **sp. nov.** and *T. serrata* **sp. nov.** are described as new, and *T. tylostegalis* (Hampson) is redescribed. Images of adults, genitalia of the five species are provided, along with a key to their identification.

Key words: Lepidoptera, Crambidae, Spilomelinae, *Tylostega*, new species, China

Introduction

Tylostega, 1894 was erected by Meyrick with *T. chrysanthes* Meyrick as the type species. Initially it also included *T. photias* Meyrick, 1894, *T. schematias* Meyrick, 1894 and *T. mesodora* Meyrick, 1894, which were all described from Borneo. Warren (1896) described *Tylostega valvata* from India, but Hampson (1896) redescribed it as a member of *Nacoleia* since he regarded *Tylostega* as a synonym of *Nacoleia* Walker. And Hampson transferred *T. schematias* Meyrick to the genus *Xanthomelaena* as its type species. Another species, *T. tylostegalis* (Hampson, 1900), was originally described in the genus *Entephria* Lederer, 1863 from Russia (Far East) and China. However, *Entephria* was preoccupied by a genus in Geometridae, so it was replaced by the subjective name *Pycnarmon* (Shibuya, 1928). This species was catalogued in *Pycnarmon* by Klima (1939), but later transferred to *Tylostega* by Yamanaka & Yoshiyasu (1992). Shibuya (1928) transferred *Nacoleia photias* (Meyrick) to *Pelena* of Hydrocampinae only based on the character that R_2 is anastomosed with R_{3+4} . But this character is also found in *Tylostega* in our study. So it is still treated as a member of *Tylostega* in this paper. Klima (1939) catalogued both *Tylostega* and *Nacoleia* as synonyms of *Lamprosema* Hübner. Nevertheless, Yamanaka & Yoshiyasu (1992) and Wang & Speidel (2000) regarded *Tylostega* as a valid genus, which is accepted in the present paper.

The genus *Tylostega* is represented by the forewing having characteristic superficial patterns and in male having a depression in the cell containing a flat scale-tuft above and dense pecten of scales beneath. To date it consists of five species, *T. chrysanthes* Meyrick, *T. photias* Meyrick, *T. mesodora* Meyrick, *T. valvata* Warren and *T. tylostegalis* (Hampson) (Hampson, 1898, 1900; Leech, 1901; Shibuya, 1928; Inoue, 1980, 1982; Yamanaka & Yoshiyasu, 1992; Wang & Speidel, 2000; Wang *et al.*, 2003).

The aim of the present paper is to review the genus in China and describe new species. Based on the specimens collected from the Mainland China, descriptions of five species are given, including *T. tylostegalis* (Hampson) and four new species.