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# 凹距族飞虱一新属一新种\*

(同翅目:飞虱科)

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**摘要** 本文记述飞虱科凹距族1新属,脊额飞虱属 *Carinofrons* Chen et Li, gen. nov., 1新种,斑翅脊额飞虱 *C. maculatipennis* Chen et Li, sp. nov.。模式标本保存于贵州大学昆虫研究所。

**关键词** 同翅目, 飞虱科, 凹距族, 新属, 新种。

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## 脊额飞虱属,新属 *Carinofrons* Chen et Li, gen. nov.

模式种:斑翅脊额飞虱,新种 *Carinofrons maculatipennis* Chen et Li, sp. nov.

头部包括复眼较前胸背板窄,头顶近方形,中长略小于基宽,基宽约等于端宽,侧缘向端部两侧扩宽,中侧脊起自侧缘中偏基部,相向延伸,在头顶端缘不汇合;额两侧脊稍向外侧方拱曲,以中部最宽,中脊为最宽处宽度的2.3倍左右,脊尤其是侧脊显著隆起,中脊于基部1/3处分叉;唇基基部宽于额端部,长大于基宽;触角圆柱形,伸至后唇基中部,第1节长大于端部宽,第2节为第1节长的2倍以上;前胸背板短于头顶中长,侧脊稍弯曲,不伸达后缘;中胸背板长大于前胸背板与头顶长度之和,3条脊,中脊不伸达小盾片末端;后足胫距大而厚,向内的一面凹陷,仅尖端具1微齿,后缘无齿。雄虫臀节环状,陷入生殖节内;尾节后面观,后开口V形;膈背缘具突起;阳茎简单,管状;阳基侧突端半相向弯曲,呈圆括弧形。

本属根据其后足胫距的特征,应隶属于飞虱科 Delphacidae 飞虱亚科 Delphacinae 凹距族 Tropidocephalini,该属接近于高原飞虱属 *Paranectopia* Ding et Tian,但头顶包括复眼的宽度明显狭于前胸背板,触角伸达后唇基中部,额侧脊异常隆起,中脊于中偏基部分叉,头顶及额各脊十分清晰等特征,与后者明显不同。本属根据额侧脊隆起程度,中脊于额上分叉等特征,亦可与本族其余属相区别。

## 斑翅脊额飞虱,新种 *Carinofrons maculatipennis* Chen et Li, sp. nov. (图1~13)

长翅型 体连翅长♂ 3.8 mm,体长♂ 2.3 mm,翅长♂ 3.1 mm。

中翅型 体连翅长♂ 2.4 mm,♀ 3.1 mm;体长♂ 2.0 mm,♀ 3.0 mm;翅长♂ 2.0 mm,♀ 2.4 mm。

头部包括复眼狭于前胸背板,头顶中长略小于基宽(0.94:1.00),基宽等于端宽,侧缘向端部两侧扩宽,中侧脊起自侧缘基部1/3处,相向延伸,在头顶端缘不汇合;额以中部为最宽,中脊为最宽处宽度的2.35倍,脊显著隆起,中脊于基部1/3处分叉;唇基基部宽于额端部,长

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1. 头胸部背  
view) 4  
(male genit  
ment, susp  
左侧面  
大于基宽  
倍;前胸背  
与头顶长  
缘无齿。  
雄虫  
稍弧形突  
刺突基两  
部宽,端部  
体暗  
脊间黑褐  
黑褐色,后

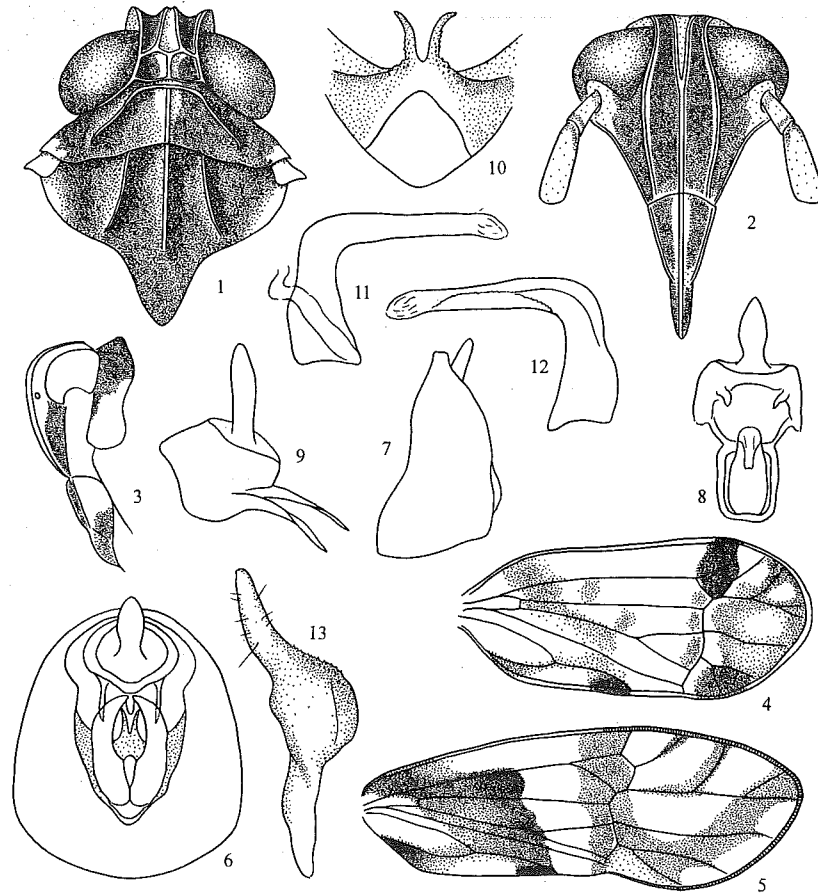


图 1~13 斑翅脊额飞虱,新种 *Carinofrons maculatipennis* Chen et Li, sp. nov.

1. 头胸部背面(head and thorax, dorsal view) 2. 额和唇基(frons and clypeus) 3. 头胸部侧面(head and thorax, lateral view) 4. 中翅型前翅(tegmen, coelopteros form) 5. 长翅型前翅(tegmen, macropterous form) 6. 雄生殖节后面观(male genitalia, posterior view) 7. 雄生殖节侧面观(male genitalia, lateral view) 8. 臀节、悬片和阳茎腹面观(anal segment, suspensorium and phallus, ventral view) 9. 臀节侧面观(anal segment, lateral view) 10. 膈(diaphragm) 11. 阳茎左侧面(phallus, left side) 12. 阳茎右侧面(phallus, right side) 13. 阳基侧突,左侧面观(genital style, left side)

大于基宽;触角圆柱形,伸至后唇基中部,第1节长为端宽的1.4倍,第2节为第1节长的2.2倍;前胸背板略短于头顶长度(0.87:1.00),侧脊稍弯曲,不伸达后缘;中胸背板长于前胸背板与头顶长度之和(1.33:1.00),3条脊,中脊不伸达小盾片末端;后足胫距仅尖端具1微齿,后缘无齿。

雄虫臀节短,环状,陷入生殖节内,腹缘具2细长片状突;尾节侧面观背缘短于腹缘,后缘稍弧形突出,尾节后面观,后开口V形,长大于宽,腹缘深凹;膈背缘中部隆起,具2根长刺突,刺突基两侧具许多小齿;阳茎简单,管状,于中偏基部呈直角弯向腹面,端部膜质;阳基侧突基部宽,端部细,后面观2阳基侧突相向弯曲,端半围成1个圆括弧形。

体暗黄褐具黑褐斑。头顶侧脊褐色,内侧具黄褐色狭边,基隔室暗褐色,端半中侧脊与侧脊间黑褐色,中侧脊间及Y形脊两侧淡黄褐色;额黑褐色,侧脊内侧,中脊两侧具黄褐色边,颊黑褐色,后唇基褐色,前唇基暗褐色;触角第1节端部,第2节基部暗褐色,其余部分黄褐色;

斑

向端部  
侧方拱  
1/3处  
端部宽,  
背板长  
内的一  
口V形;

凹距族  
的宽度  
及额各  
特征,亦

mm, ♀

侧缘向  
为最宽,  
端部,长

前、中胸背板大部黑褐色,仅侧区和前胸背板中脊及其两侧为黄白色;翅基片黄白色微褐;前翅爪片近基部1小斑及自前缘基部伸向翅斑处1大斜斑黑褐色,前翅端半自前缘沿横脉至后缘,再转向翅端,为1暗褐色宽带,沿Sc<sub>2</sub>、R<sub>1</sub>脉各有1暗褐色带纹;胸部侧板、各足基节黑褐色,足其余各节褐色至黄褐色,腿节基部色较深;腹部黑褐色,各节后侧缘黄白色微褐,生殖节黑褐色,臀节及臀突黄褐色;中翅型色如长翅型,但色稍浅淡,前翅翅斑、翅端部前、后缘黑褐色斑纹大而明显。

正模♂(长翅型),副模2♂♂,1♀(中翅型),贵州望谟打易,1998-07-28,陈祥盛采。

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## A NEW GENUS AND SPECIES OF TROPIDOCEPHALINI (HOMOPTERA: DELPHACIDAE)

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### Abstract

In the present paper, a new genus and species of Tropidocephalini are described from Guizhou Province, China. The types specimens are deposited in the Institute of Entomology, Guizhou University.

#### *Carinofrons* Chen et Li, gen. nov.

Head including eyes narrower than pronotum, vertex quadrate, shorter medially than wide at base. Frons in median line longer than wide at widest part(2.3:1.0), widest at about the middle, carinae well developed, especially the lateral carina, median carina forked at basal 1/3. Antennae cylindrical, first segment longer than wide, second segment longer than first (2:1), reaching to the middle of postclypeus. Pronotum with lateral carinae not reaching hind margin, mesonotum longer than the length of vertex and pronotum put together. Spur large and thick, concave on inner surface, with a small apical tooth and no teeth along the hind margin.

Anal segment of male ring-like. Pygofer in posterior view with opening longer than wide obviously, V-like. Diaphragm with processes at dorsal margin. Aedeagus simple, tubular. Genital styles with apical half curves-like.

The nature of the spur places this genus in the Tropidocephalini. Somewhat similar to *Paranectopia* Ding et Tian, but can be separated from the latter by the following characters: 1) head including eyes narrower than pronotum; 2) frons with lateral carinae well developed, median carina forked at basal 1/3; 3) antennae reaching to the middle of postclypeus; 4) the carinae of vertex and frons distinct.

Type  
*Carinofrons*  
 Macr  
 Coel  
 length♂  
 Body  
 brown, th  
 yellowish  
 ment and  
 eas and m  
 ings, as in  
 Holo  
 25°11'N,  
 Key word

Type species: *Carinofrons maculatipennis* Chen et Li, sp. nov.

***Carinofrons maculatipennis* Chen et Li, sp. nov.** (Figs. 1-13)

Macropt. f. Body length ♂ 2.3 mm; including teg ♂ 3.8 mm; tegmen length ♂ 3.1 mm.

Coelopt. f. Body length ♂ 2.0 mm, ♀ 3.0 mm; including teg ♂ 2.4 mm, ♀ 3.1 mm; tegmen length ♂ 2.0 mm, ♀ 2.4 mm.

Body dark yellowish brown with blackish brown markings. Vertex with carinae pale brown to brown, the areas between carinae blackish brown. Frons, gena blackish brown, lateral carinae yellowish brown, postclypeus brown, anteclypeus dark brown. Antennae with apex of first segment and base of second segment dark brown. Pro-, mesonotum blackish brown, except lateral areas and median carina yellowish white. Forewing with yellowish brown or blackish brown markings, as in Figs. 4-5.

Holotype ♂ (macropterous), paratypes 2 ♂♂, 1 ♀ (coelopterous), Wangmo (1 200 m, 25°11'N, 106°25'E), Guizhou Province, 28. VII. 1998, coll. CHEN Xiang-Sheng.

**Key words** Homoptera, Delphacidae, Tropidophalini, new genus, new species.