

TWO NEW SPECIES OF MACROTYLUS FIEBER
FROM THE WESTERN UNITED STATES

(Hemiptera, Miridæ)*

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Macrotylus polymonii Knight, n. sp.

Allied to *multipunctatus* Van D. but nearly black in color, antennal segments longer and tylus more vertical; pronotum, clavus, and corium with white ground color, each black bristle-like hair set in a round black spot, the spots largely coalescing and giving the impression that the dorsum is half black.

Male. Length 4.2 mm., width 1.7 mm. Head: width .69 mm., vertex .39 mm.; black, bucculæ and geminate mark on base of vertex and collum, white; frons tumidly convex, tylus strongly vertical. Rostrum: length 1.34 mm., reaching upon middle of hind coxæ. Antennæ: segment I, length .39 mm., black, tip white; II, 1.16 mm., black, narrow base and tip white; III, .86 mm.; IV, .36 mm. Pronotum: length 1.03 mm., width at base 1.17 mm.

Clothed with short, black, bristle-like hairs; color black, dorsum with white ground color and marked with coalescing black spots as described above; mesoscutum with yellowish white spot each side, calli black. Cuneus black, base, narrow membrane margin and apex white. Membrane black, veins opaque white, a small clear spot bordering apex of cuneus, also a rounded pale spot beyond, near membrane margin. Legs black, tips of femora becoming pale.

Female. Length 4.3 mm.; width 1.8 mm. Head: width .69 mm., vertex .43 mm. Antennæ: segment I, length .41 mm.; II, 1.12 mm.; III, .84 mm.; IV, .34 mm. Slightly more robust but very similar to the male in form and coloration.

Holotype: Male, August 14, 1931, altitude 10,000 feet, Mount Rainier, Washington (H. H. Knight). *Allotype*: same data as the type. *Paratypes*: 26 ♂ ♀, taken with the types on *Polymonium humile* R. & S., as determined by Dr. J. T. Howell. Mr. C. W. Getzendaner took the first specimens and called my attention to this interesting species. By careful searching we were able to hand-pick specimens from the host plant; I also observed a few cast nymphal skins sticking to leaves of the host. Paratypes will be deposited in collection

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of California Academy of Sciences and in the United States National Museum collection.

Macrotylus vanduzeei Knight, n. sp.

Distinguished from allied species by the truncated and slightly enlarged tips of the erect black bristles on dorsum; corium, except apex and the outer half of clavus, orange-colored.

Male. Length 5.1 mm., width 1.8 mm. Head: width .78 mm., vertex .38 mm., strongly elongated; black, spot on vertex and median line of frons pale, also more or less pale on bucculæ, lora, and juga. Rostrum, length 2.5 mm., reaching upon middle of venter. Antennæ: segment I, length .32 mm.; II, 1.51 mm.; III, .91 mm.; IV, .36 mm.; black, clothed with black pubescence. Pronotum: length .71 mm., width at base 1.47 mm.; black, basal half and anteriorly along lateral margins pale.

Dorsum clothed with erect black bristles, the tip of each bristle truncate and slightly enlarged. Scutellum and mesoscutum black; hemelytra orange-colored, embolium, apex of corium and of clavus, blackish; inner margin of clavus bordering apex of scutellum, anal ridge, and cuneus pale to whitish; membrane black, veins and spot at tip of cuneus pale, also somewhat paler on middle of membrane bordering cubitus. Ventral surface black, distal margins of ventral segments pale. Legs black, dorsal line on tibiæ and somewhat on middle of femora, pale.

Female. Length 4.6 mm., width 1.8 mm. Head: width .79 mm., vertex .41 mm. Antennæ: segment I, length .30 mm.; II, 1.51 mm.; III, .82 mm.; IV, .34 mm. Pronotum: length .67 mm., width at base 1.4 mm. Slightly more robust than the male but very similar in form and coloration.

Holotype: Male, May 29, 1930, San Susana, Ventura County, California, "collected on sage" (Calif. Dept. Agr. No. 30405-10); No. 3598 Mus. Calif. Acad. Sci. *Allotype*: taken with the type; No. 3599, Mus. Calif. Acad. Sci. *Paratypes*: ♂, taken with the types; author's collection. ♂ ♀, Los Angeles County, California (Coquillett); U. S. National Museum collection. Named in honor of Mr. E. P. Van Duzee, to whom the writer is indebted for the opportunity of doing considerable work on the Miridæ in the collection of the California Academy of Sciences.