

## ENTOMOLOGY

## A new species of Lepidoptera Tortricidae, *Pammene bejaiana* Trematerra sp. n.

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### Abstract

In the present paper, the new species *Pammene bejaiana* Trematerra sp.n. (Lepidoptera Tortricidae) collected in Algeria at Akfadou (Béjaia Province) is described. The new species is similar to *Pammene trauniana* (Denis & Schiffermüller, 1775) and *Pammene crataegophila* (Amsel, 1935), can be distinguished by genitalia characters.

**Key words:** *Pammene bejaiana*, Lepidoptera Tortricidae, new species.

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To meet the requirements by the International Code of Zoological nomenclature (ICZn), this article was registered at ZooBank (18 May 2026) under the ZooBank Life Science Identifier (LSID): urn:lsid:zoobank.org:pub: A67071B3-B58D-4980-9CD9-AD7F71079834.  
Published: 19 May 2026.

### Introduction

A few years ago, I received the specimen described below, *Pammene bejaiana* Trematerra sp. n., from my colleague Domenico Gianasso, who sadly passed away in January 2022. Professor Gianasso was an Italian biologist who studied buprestid beetles from Europe in particular. During his lifetime, he also collaborated with the Natural Science Museum of Turin and curated the beetle section of the Civic Museum of Natural History of Carmagnola.

#### *Pammene bejaiana* Trematerra sp. n.

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Material examined. Holotype, 1 male, Algeria, Akfadou (Béjaia Province), 7.V.1979, leg. D. Gianasso. Deposited in the Trematerra Collection, Campobasso, Italy.

Adult (Figure 1a). Wing span 11 mm. Head, thorax, and abdomen dark brown. Antenna brown. Palps yellowish, brown at the apical part, yellowish at the base. Costa evenly curved. Ground color of forewing brownish sprinkled of black scales, preserved as a large light dorsal blotch; costal strigulae whitish 1/4, basal strigulae greyish; remaining parts of wing brownish, slightly lighter basally; speculum concolorous with the wing marked by refractive lines with black inner spots and refractive lines. Cilia grey, basal line whitish. Hindwing dark brown at the periphery, suffused brownish light brown becoming white basally; cilia whitish with brown dividing line along base.

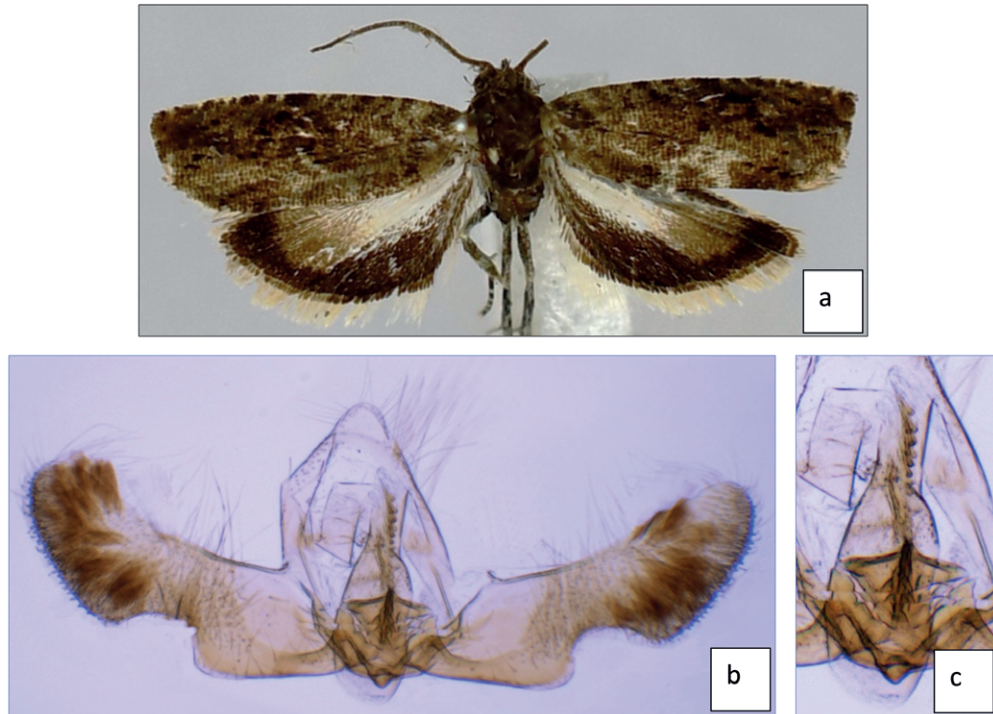
Male genitalia (Figure 1b and c). Tegumen developed, rather wide, uncus vestigial, in form of a weak apical prominence, with hairs at top. Ventral edge of sacculus straight, long, caudal angle well defined; neck of valva short, fairly long; hairs extending from sacculus to cucullus; cucullus subtriangular semiovalate, with slightly developed ventral part, adorned with bristles and spines. Basal cavity well defined, large, subtrapezoidal. Vinculum prominent. Aedeagus developed, straight long, narrowed at apical third, vesica armed with minute cornuti lanceolate and spiny arranged in a row.

Female genitalia. Unknown.

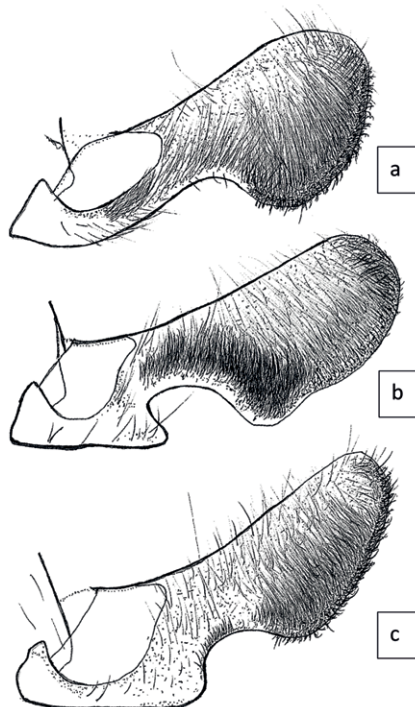
Diagnosis (Figure 2). Adult and male genitalia of *Pammene bejaiana* are similar to *Pammene trauniana* (Denis & Schiffermüller, 1775) on *Acer campestre* seeds and *Acer turcomanicum* seeds (distributed in Europe, South Mediterranean, Crimea, Caucasus, Iran, Turkmenistan), and to *Pammene crataegophila* (Amsel, 1935) on *Crataegus* (reported from Cyprus and Jordan) (Danilevsky and Kuznetsov, 1968; Kuznetsov, 1987; Komai, 1999; Razowski, 2003; Kuznetsov, 2005; Barton, 2015). The male genitalia of *P. bejaiana* can be distinguished by the two previous species by more extended ventral edge of sacculus, by caudal angle well defined and by distribution of hairs and bristles from sacculus to cucullus.

Biology. Adult of *P. bejaiana* was found in early May at Akfadou forest in Bejaia, Algeria, a forest of oak and beech. Akfadou's name recalls the harsh climate in this region, especially in winter when the cold winds gust, and heavy snows often isolate small villages. This locale is noted for its local population of barbary macaque, *Macaca sylvanus* (Linnaeus, 1758).

Etymology. The name of the new species *Pammene bejaiana* refers to the Béjaia Province, in the Kabylie Region of north Algeria.



**Figure 1.** *Pammene bejiana*: male adult (a); male genitalia (b); aedeagus (c).



**Figure 2.** Male genitalia, valva of *Pammene trauniana* (a), *Pammene crataegophila* (b), *Pammene bejiana* (c).

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Received: 27 April 2026; Accepted: 27 April 2026.

Conflict of interest: the authors declare that they have no competing interests, and all authors confirm accuracy.

Ethics approval and consent to participate: not applicable.

Acknowledgments: the author is grateful to Domenico Gianasso (†), and Lepiforum e V. for the access and use of some materials, data, and information.

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