

**Rodrigues, B.**

**On the Pták homomorphism theorem.** (English) Zbl 0708.46013  
J. Aust. Math. Soc., Ser. A 47, No. 2, 322-333 (1989).

Summary: A brief and accessible proof is given of an extension of the Pták homomorphism theorem to a larger class of spaces - spaces that are not necessarily assumed to be locally convex. This is done by first proving a counterpart of the Bourbaki-Grothendieck homomorphism theorem for the non-locally-convex case. Our presentation utilizes the simplifying properties of seminorms.

**MSC:**

- [46A30](#) Open mapping and closed graph theorems; completeness (including  $B$ -,  $B_r$ -completeness)
- [46A08](#) Barrelled spaces, bornological spaces
- [46A16](#) Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)

Cited in **1** Review  
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**Keywords:**

semi-barrelled space; semi-B-complete; quotient seminorm; adequate map; small disjoint; semi-open; weakly open; nearly semi-open; nearly semi-continuous; Pták homomorphism theorem; Bourbaki-Grothendieck homomorphism theorem for the non-locally-convex case