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**Almost preenvelopes of commutative rings.** (English) Zbl 1267.13018

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Summary: We study almost  $F$ -preenvelopes in the category of rings, for a significative class  $F$  of commutative rings. We completely identify those rings which have an almost  $F$ -preenvelope when  $F$  is the class of fields, semisimple rings, integer domains and local rings. We show that rings with Krull dimension zero have (almost)  $V$ -preenvelopes, where  $V$  is the class of von Neumann regular rings.

**MSC:**

[13C05](#) Structure, classification theorems for modules and ideals in commutative rings

**Keywords:**

[almost preenvelopes](#); [semiprimitive rings](#); [local rings](#); [von Neumann regular rings](#)