

## $\mathcal{L}$ -STABLE RINGS

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**ABSTRACT.** If  $\mathcal{L}(R)$  is a set of left ideals defined in any ring  $R$ , we say that  $R$  is  $\mathcal{L}$ -stable if it has stable range 1 relative to the set  $\mathcal{L}(R)$ . We explore  $\mathcal{L}$ -stability in general, characterize when it passes to related classes of rings, and explore which classes of rings are  $\mathcal{L}$ -stable for some  $\mathcal{L}$ . Some well known examples of  $\mathcal{L}$ -stable rings are presented, and we show that the Dedekind finite rings are  $\mathcal{L}$ -stable for a suitable  $\mathcal{L}$ .

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