

Von Neumann regularity of Steinberg algebras

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Von Neumann invented the notion of a (von Neumann) regular ring in the 1930s in his study of what is now called von Neumann algebras. A ring is regular if for every a , there is a b with $aba = a$. In this talk, I will give necessary and sufficient conditions for when a Steinberg algebra, with coefficients in an arbitrary unital ring, is von Neumann regular and also when a Steinberg algebra is graded von Neumann regular. I will provide some known and new examples.

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