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**A simple parameterization of  $3 \times 3$  magic squares.**

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Summary: In this article a new parameterization of magic squares of order three is presented. This parameterization permits an easy computation of their inverses, eigenvalues, eigenvectors and adjoints. Some attention is paid to the Luoshu, one of the oldest magic squares.

*Classification:* A20 H60

*Keywords:* magic squares; eigenvalues; eigenvectors; inverses; Luoshu

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