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Mal'tsev–Neumann products of semi-simple classes of rings

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Abstract: Malt'tsev–Neumann products of semi-simple classes of associative rings are studied and some conditions which ensure that such a product is again a semi-simple class are obtained. It is shown that both products, $\mathcal{S}_1 \circ \mathcal{S}_2$ and $\mathcal{S}_2 \circ \mathcal{S}_1$ of semi-simple classes $\mathcal{S}_1$ and $\mathcal{S}_2$ are semi-simple classes if and only if they are equal.

Keywords: radical class; semi-simple class; Mal'tsev–Neumann product
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