

Local Nilpotency of the McCrimmon Radical of a Jordan System

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Using the fact that absolute zero divisors in Jordan pairs become Lie sandwiches of the corresponding TKK Lie algebras, we prove local nilpotency of the McCrimmon radical of a Jordan system (algebra, triple system or pair) over an arbitrary ring of scalars. As an application, we get that simple Jordan systems are always nondegenerate.

The results are included in a paper with the same title [1], jointly written by Teresa Cortés, Efim Zelmanov, and the author of this poster, that will appear in the *Proceedings of the Steklov Institute of Mathematics*.

References

- [1] J. A. ANQUELA, T. CORTÉS, E. ZELMANOV, Local Nilpotency of the McCrimmon Radical of a Jordan System, *Proc. Steklov Inst. Math.* (to appear).

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