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***On the Jacobson radical of strongly group graded rings***

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**Abstract:** For any non-torsion group  $G$  with identity  $e$ , we construct a strongly  $G$ -graded ring  $R$  such that the Jacobson radical  $J(R_e)$  is locally nilpotent, but  $J(R)$  is not locally nilpotent. This answers a question posed by Puczyłowski.

**Keywords:** strongly graded rings, radicals, local nilpotency

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