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Domination number of cubic graphs with large girth

We show that every n -vertex cubic graph with girth at least g have domination number at most $0.299871 \cdot n + O(n/g) < 3n/10 + O(n/g)$. This result improves previous bound $0.321216 \cdot n + O(n/g)$ of Rautenbach and Reed.