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*The average eccentricity of a graph with prescribed girth*

Let  $G$  be a connected graph of order  $n$ . The eccentricity  $e(v)$  of a vertex  $v$  is the distance from  $v$  to a vertex farthest from  $v$ . The average eccentricity of  $G$  is the mean of all eccentricities in  $G$ . We give upper bounds on the average eccentricity of  $G$  in terms of  $n$ , minimum degree  $\delta$ , and girth  $g$ . In addition, we proved that if for given  $g$  and  $\delta$ , there exists a Moore graph, then the bounds are asymptotically sharp. Moreover, we showed that the bounds can be further improved if  $G$  has a large degree.