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**Harold Gerard Donnelly\*** ([hgd@math.purdue.edu](mailto:hgd@math.purdue.edu)), 150 North University Street, West Lafayette, IN 47907. *Positive curvature and eigenfunctions of the Laplacian.*

Let  $M$  be a noncompact Riemannian manifold with a complete metric of nonnegative Ricci curvature. We review recent positive and negative results concerning the existence of square integrable eigenfunctions for the Laplacian of  $M$ . (Received January 05, 2009)