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On the Dirichlet problem at infinity for manifolds of nonpositive curvature. (English)

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A complete simply connected Riemannian manifold M^n with nonpositive sectional curvature is diffeomorphic to \mathbb{R}^n and admits a compactification by a sphere at infinity. One may ask whether for a given continuous function f at infinity there is a harmonic extension to M . This question is answered in the case that M admits a compact quotient.

Reviewer: [W.Ballmann](#)

MSC:

- [53C20](#) Global Riemannian geometry, including pinching
- [31C12](#) Potential theory on Riemannian manifolds and other spaces
- [60G50](#) Sums of independent random variables; random walks
- [58J65](#) Diffusion processes and stochastic analysis on manifolds

Cited in **16** Documents

Keywords:

[nonpositive sectional curvature](#); [harmonic extension](#); [compact quotient](#)

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