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Some properties of hypersurfaces of prescribed mean curvature in H^{n+1} . (English)

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The paper investigates the behavior of graphs with prescribed mean curvature in hyperbolic space \mathbb{H}^{n+1} . The main theorem states that certain graphs with prescribed mean curvature in \mathbb{H}^{n+1} cannot have an isolated singularity. Furthermore a flux formula for surfaces in \mathbb{H}^3 with constant mean curvature is discussed.

Reviewer: F.Manhart (Wien)

MSC:

53A10 Minimal surfaces in differential geometry, surfaces with prescribed mean curvature

Cited in **6** Documents

53A35 Non-Euclidean differential geometry

Keywords:

prescribed mean curvature graphs; hyperbolic space; constant mean curvature