

Nelli, Barbara; Semmler, Beate

Some remarks on compact constant mean curvature hypersurfaces in a halfspace of \mathbb{H}^{n+1} .

(English) [Zbl 0981.53049](#)

J. Geom. 64, No. 1-2, 128-140 (1999).

The authors give a theorem (see the abstract of the paper for a complete statement of it) for hypersurfaces of constant mean curvature in a halfspace of hyperbolic space \mathbb{H}^{n+1} . They consider embedded compact hypersurfaces M with boundary ∂M in the boundary geodesic hyperplane P of the halfspace and with non-zero mean curvature. They also prove a result about the topology of such hypersurfaces.

Reviewer: [Ildefonso Castro Lopez \(Jaen\)](#)

MSC:

[53C42](#) Differential geometry of immersions (minimal, prescribed curvature, tight, etc.)

Cited in 4 Documents

[53A10](#) Minimal surfaces in differential geometry, surfaces with prescribed mean curvature

Keywords:

[constant mean curvature](#); [large hypersurfaces](#); [Alexandrov reflection technique](#)

Full Text: [DOI](#)

References:

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