

Title: Constant mean curvature surfaces with prescribed ideal boundary in negatively curved 3-manifolds

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Abstract: I shall describe some existence/nonexistence theorems for constant mean curvature disks and annuli with boundary on the sphere at infinity in hyperbolic 3-space. I shall outline some work of my student Thomas Cuscheri on the continuous dependence of constant mean curvature disks on their ideal boundary. The relation of stability of constant mean curvature surfaces to Yau's isoperimetric inequality in a negatively curved 3-manifold will also be discussed.