

Dr. Frank Müller

On the boundary behaviour of H-surfaces in a partially free boundary configuration

TIME:

11 Jun 2007, 16:00 - 18:00

LOCATION:

We study surfaces with prescribed mean curvature (shortly H-surfaces), which are spanned into a partially free boundary configuration consisting of a two-dimensional support manifold and a Jordan arc. New asymptotic expansions for the H-surface and its derivatives near the meeting points of Jordan arc and support manifold will be presented. These representations extend known results by G. Dziuk for minimal surfaces. The difficulties in the H-surface case arise from the non-perpendicular intersection of surface and support manifold.

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