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Minisymposium 11 - Geometrische Analysis

On the regularity of surfaces with prescribed mean curvature and partially free boundaries

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We discuss continuous, stationary surfaces with prescribed mean curvature and partially free boundaries $\{\Gamma, S\}$ in the Euclidean 3-space. At first, we present a new result concerning the regularity at the free boundary for a smooth support surface S. Then we report on the behaviour near meeting points of the Jordan arc Γ with S and near "edge type" singular points of S itself. These results generalize G. Dziuk's investigations on minimal surfaces.