



Minisymposium 11 - Geometrische Analysis

Curvature estimates for graphs with prescribed mean curvature and flat normal bundle

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We consider graphs $\Sigma^n \subset \mathbb{R}^m$ with prescribed mean curvature and flat normal bundle. Using techniques of Schoen-Simon-Yau and Ecker-Huisken, we derive the interior curvature estimate

$$\sup_{\Sigma \cap B_R} |A|^2 \leq \frac{C}{R^2}$$

up to dimension $n \leq 5$, where C is a constant depending on natural geometric data of Σ only. This generalizes previous results of Smoczyk-Wang-Xin and Wang for minimal graphs with flat normal bundle. (Joint work with Steffen Fröhlich.)