

Dierkes, Ulrich

On the non-existence of energy stable minimal cones. (English) Zbl 0714.49045
Ann. Inst. Henri Poincaré, Anal. Non Linéaire 7, No. 6, 589-601 (1990).

Summary: We show that there are no non-trivial (potential) energy stable minimal cones in $\mathbb{R}^n \times \mathbb{R}^+$ with singularity at 0, if $2 \leq n \leq 5$. The sharpness of this result is demonstrated by proving that a certain six dimensional cone in \mathbb{R}^7 is stable. Moreover, we extend all results to the more general α -energy functional.

MSC:

49Q20 Variational problems in a geometric measure-theoretic setting

Cited in 2 Documents

Keywords:

energy stable minimal cones

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