

On the r -stability of hypersurfaces of the euclidean space

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Abstract

We show the r -stability of r -special hypersurfaces of the euclidean space whose set of points of zero Gauss-Kronecker curvature has (at least) codimension 2. This result improves a result by Alencar, do Carmo and Elbert. We construct also some new examples of r -stable hypersurfaces.