

Globevnik, Josip

Perturbing analytic discs attached to maximal real submanifolds of \mathbb{C}^N . (English)

Zbl 0861.32013

Indag. Math., New Ser. 7, No. 1, 37-46 (1996).

Let f be an analytic disc in \mathbb{C}^N attached to a maximal real submanifold M of \mathbb{C}^N . The author introduced in a recent paper [Math. Z. 217, No. 2, 287-316 (1994; Zbl 0806.58044)] partial indices k_j , $1 \leq j \leq N$, of M along the boundary of f and showed that if $k_j \geq 0$ for all j then the family of nearby analytic discs attached to M depends on $k_1 + \dots + k_N$ parameters. Y.-G. Oh sharpened this by proving the same when $k_j \geq -1$ for all j and showed that in terms of stability this is the best possible condition. In the paper under review the author explains why the latter condition is natural and give a simple proof of Oh's result in the orientable case.

Reviewer: V.Vâjaitu (Wuppertal)

MSC:

32G10 Deformations of submanifolds and subspaces
32V40 Real submanifolds in complex manifolds
32D10 Envelopes of holomorphy

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