

Stability of embeddings for pseudoconcave surfaces and their boundaries

by

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1. Introduction

Let M denote a compact, strictly pseudoconvex, 3-dimensional CR-manifold. Such a structure is induced on a strictly pseudoconvex, real hypersurface in a complex surface, or as the boundary of a 2-dimensional Stein space. In the latter case we say that the CR-manifold is fillable or embeddable. It is a fundamental fact that many 3-dimensional, strongly pseudoconvex CR-manifolds cannot be realized as the boundary of any compact complex space. The CR-structure on M can be described as a subbundle $T^{0,1}M$ of the