

**A Family of Compact Algebraic Strongly Pseudoconvex  
Hypersurfaces Which Can Not Be Locally Embedded  
into a Sphere of Any Dimension**

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**Abstract**

The materials of this talk are based on three joint papers, one with D. Zaitsev (Math. Z.), one with X. Li and Ming Xiao (IMRN) and one with Ming Xiao. I will describe the construction of a family of compact strongly pseudoconvex algebraic hypersurfaces which can not be holomorphically embedded into any sphere. This gave a negative answer to a long standing folklore conjecture in CR geometry.