

1098-00-275

**Xiaojun Huang**, 110 Frelinghuysen Rd., Piscataway, NJ 08854, **Xiaoshan Li**, Wuhan University, Wuhan, Hubei 430072, Peoples Rep of China, and **Ming Xiao\*** ([xmg512@gmail.com](mailto:xmg512@gmail.com)), 110 Frelinghuysen Rd., Piscataway, NJ 08854. *Non-embeddability into a fixed sphere for a family of compact real algebraic hypersurfaces.*

We study the holomorphic embedding problem from compact real algebraic hypersurfaces into a sphere. By our theorem, for any integer  $N$ , there is a family of compact strongly pseudoconvex hypersurfaces in  $\mathbb{C}^2$ , none of which can be locally holomorphically embedded into the unit sphere in  $\mathbb{C}^N$ . This shows that the Whitney (or Remmert) type embedding theorem in differential topology (or in the Stein space theory, respectively) does not hold in the setting above. (Received January 27, 2014)