

1030-32-45

Jiri Lebl* (jlebl@math.uiuc.edu), Department of Mathematics, University of Illinois at Urbana-Champaign, 1409 W. Green Street, Urbana, IL 61801. *Extension of Levi-flat hypersurfaces past CR boundaries.*

We will study local conditions on the boundary of a smooth Levi-flat hypersurface of \mathbb{C}^N in case the boundary is a generic real analytic submanifold. We prove that the hypersurface extends past the boundary. In case the boundary is not flat, we further prove that the hypersurface is unique and real analytic. We will present examples showing the results to be optimal. (Received July 02, 2007)