

TEMPLE UNIVERSITY

Department of Mathematics

Analysis Seminar

Room 617 Wachman Hall

Monday, April 6, 2014, 2:40 p.m.

*On the reflection principle for CR mapping
between CR manifolds*

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Abstract: We will present generalizations of the classical Schwarz reflection principle for CR mappings between an abstract CR manifold and a strictly pseudoconvex real hypersurface in euclidean complex space. As a consequence of the results, we settled a conjecture of X.Huang raised in 1994 and resolved a question of F. Forstneric. A more general case for CR mappings into a Levi-nondegenerate hypersurface will also be mentioned if time permits. This is based on two papers with Shif Berhanu.