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Wednesday, May 2, 2012
4:20 PM
117 Hayes-Healy Hall

Title: Embedding problems in complex analysis

Abstract:

Given a smooth real manifold we can consider a subbundle of its tangent bundle and a complex structure on it, this is called a CR structure. A complex manifold or a real hypersurface of a complex manifold admit a natural CR structure. We will discuss under which conditions a manifold together with a CR structure is a complex manifold or is embeddable in a complex manifold and also what happens after a small perturbation of the CR structure (is the manifold with the new CR structure still embeddable?).