DEFORMATION OF COMPLEX AND CR STRUCTURES

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Abstract: Deformation of complex structures has been studied extensively since the foundational work of Kodaira and Spencer in the 1950s. In this talk, we study the interplay between deformations of the complex and CR structures and spectral stability of the complex Neumann and Kohn Laplacians. We also discuss their applications to the study of stability of CR embeddings. This talk is based in part on joint work with H. Jacobowitz and W. Zhu.