TEMPLE UNIVERSITY

Department of Mathematics

Analysis Seminar

Room 617 Wachman Hall

Monday, October 12, 2015, 2:40 p.m.

Positivity of the complex Laplacian

by Siqi Fu

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The complex Laplacian is a self-adjoint operator defined on (p, q)-forms with square integrable coefficients on a complex manifold with or without boundaries. In this talk, I will discuss sufficient and necessary conditions under which the complex Laplacian is positive definite.