COMPLEX ANALYSIS SEMINAR

QUANTITATIVE IMPROVEMENT ON THE NAZAROV-SHAPIRO'S RESULT ON MEAN-WEAK ASYMPTOTIC TOEPLITZNESS OF COMPOSITION OPERATORS

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ABSTRACT: Whenever a sequence fails to converge, it makes sense to ask if its sequence of averages converges. A bounded operator T on H^2 is called mean weakly asymptotically Toeplitz whenever the sequence $M_n(T) := \frac{1}{n+1}\sum_{k=0}^{n} T_z^{*k} T T_z^k$ converges weakly on H^2. Nazarov-Shapiro proved that every composition operator is mean weakly asymptotically Toeplitz. In this talk, we improve their result.

Date: Thursday, November 10, 2011

Time: 4pm-5pm

Place: UH 4500

Webpage: `http://math.utoledo.edu/~sonmez/complexseminar.html`