Department of Mathematics and Statistics
Colloquium
Tuesday   October 9
AMB 164   4:00 pm

Positivity of truncated Toeplitz operators via Berezin transform on certain model subspaces of the Hardy space

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Abstract

We study the relationship between the positivity of truncated Toeplitz operators and the Berezin transform of their symbols. In particular, I will show positivity of the Berezin transform of the real-valued $L^\infty(\mathbb{T})$ implies the positivity of the Truncated Toeplitz Operators corresponding to the inner function $u = z^2$, however, the statement is not true in general if the corresponding inner functions are $u = z^n$ for $n > 2$.

Refreshments at 3:45