

İSTANBUL ANALYSIS SEMINARS

PARABOLIC NON-AUTOMORPHISM INDUCED TOEPLITZ-COMPOSITION C^* -ALGEBRAS WITH PIECE-WISE QUASI-CONTINUOUS SYMBOLS

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Abstract: In this talk we consider the C^* -algebra $C_* (\{C_\phi\} \cup T(PQC(T))) / K(H^2)$ generated by Toeplitz operators with piece-wise quasi-continuous symbols and a composition operator induced by a parabolic linear fractional non-automorphism symbol modulo compact operators on the Hilbert-Hardy space H^2 . This C^* -algebra is commutative. We characterize its maximal ideal space. We apply our results to the question of determining the essential spectra of linear combinations of a class of composition operators and Toeplitz operators.

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Bankalar Caddesi 2, Karaköy 34420, İstanbul