İSTANBUL ANALYSIS SEMINARS

ON QUASI-PARABOLIC COMPOSITION OPERATORS ON HARDY-HILBERT SPACE OF THE POLYDISC

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Abstract: In this talk we will show that quasi-parabolic composition operators fall in a pseudo-differential C^*-algebra acting on Hardy-Hilbert space of the bi-disc. This pseudo-differential C^*-algebra is written as the tensor product of a similar C^*-algebra in one variable with itself. Hence its character space can be characterized as the cartesian product of the character space of the C^*-algebra in one variable with itself. As a result, we find a nontrivial set sitting inside the essential spectra of quasi-parabolic composition operators.

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