ICTS Seminar

Title : A Family of Homogeneous Operators In The Cowen-Douglas Class Over The Poly-disc

Speaker : Somnath Hazra

Date : Wednesday, August 11, 2021

Time : 11:00 am (IST)

Abstract : A bounded operator T is said to be homogeneous if $\sigma(T) \subseteq D$ and $\varphi(T)$ is unitarily equivalent to T for all $\varphi \in$ M¨ob. The intertwining unitary $U(\varphi)$ between $\varphi(T)$ and T for any homogeneous operator in the Cowen-Douglas class $Bn(D)$ can be chosen to ensure the map $\varphi \mapsto U(\varphi)$ is a representation of the group M¨ob. Moreover, this intertwining relationship is the Mackey imprimitivity restricted to the function algebra A(D) consisting of functions holomorphic in a neigbourhood of the closed disc D instead of the C $\ast$ algebra C(T) of continuous functions. The definition of homogeneous operators has a natural generalization to the commuting tuple of operators. A classification of all the irreducible tuples in the Cowen-Douglas class $Br(D^n)$ except r = 1, 2, 3, is not known. However, a new family of irreducible tuples in $Br(D^n)$ which are homogeneous with respect to M¨obn have been obtained whose associated representation is multiplicity free.

Venue : Please click on the below link to join the meeting

https://us06web.zoom.us/j/86854962060?pwd=WGFlYURQdFRkdUR3eFVlVEdMSUtO UT09
Meeting ID: 868 5496 2060
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