rminants and the interest representation of holomorphic sections on the upper ositive had part. In 1955, soiculescu [47] aport on a differentive proof If-plane with a oached the trace ithout using funct ry for the for the form operators. Late nha and Mohapatra [40] extended these ideas to the unbounded self-adjoint and case, [11] There is also the interesting approach of Birman and Solomyal the theory of double operator integrals. More recently there Potapov, SINSA-AWARD, LECTURE another proo et us beg**SRINIVASA RAMANUJAN MEDAL**corollary in a (FOR MATHEMATICAL SCIENCES) Recipient: Professor Kalyan B Sinha, JNCASR which $E_H(\lambda)$ and $E_{H_0}(\lambda)$ are the spectral families of H and H_0 spectively. Then there exists a unique real-valued bounded function ξ such that i) $\xi(\lambda)$ TRAGE FORMULAE IN OPERATOR THEORY: Date: 27 June 2019 (Thursday) $= \int_{\mathbb{R}} \phi'(\lambda)\xi(\lambda)d\lambda$. **Time:** A_n pm, ξ has support in [a,b], where $a=\min\{\inf \sigma(H),\inf \sigma(H_0)\}$ Venue: Department of Mathematics, IISc. If $H - H_0 = \tau |g\rangle\langle g|$ with $\tau > 0$, ||g|| = 1 (we have y Trace is a kind of 'special non-commutative' integration' and trace formulae attempt to relate traces of certain expressions, involving operators with associated it geometric/it topological quantities. A simple example, involving two orthogonal projections in Hilbert, space, will be discussed, in which some of these features appear naturally.

Tea/ coffee and refreshments will be served after the talk.
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