Commutative Algebra Seminar

Partial Trace Ideals and Berger's Conjecture

Sarasij Maitra (University of Virginia)

Abstract: We shall define an invariant that helps in obtaining information regarding the torsion submodule of a finitely generated rank one module over a one-dimensional Noetherian local domain. We shall briefly go through some properties of this and see how this can be applied to a long-standing conjecture of R. Berger concerning the module of differentials over an analytic k-algebra. If time permits, then we shall also state and prove an explicit computation of the invariant in this case.

Wednesday, January 26 at 3:00 PM in Zoom