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“Quasi-Projective Dimension”

Friday Oct 4, 2019
3:30-4:30 pm
PKH 102

Refreshments served before the seminar in PKH 102.

Abstract:
In this talk, a new homological invariant, namely the quasi-projective dimension of modules over a ring, will be defined. It turns out that quasi-projective dimension is a generalization of projective dimension and that they agree when the projective dimension is finite. It will be shown in the talk that quasi-projective dimension characterizes complete intersection rings, and that many classical results about modules of finite projective dimension (such as the Auslander-Buchsbaum formula, depth formula and rigidity in vanishing of Ext and Tor) hold for modules of finite quasi-projective dimension.

For more information, see the UTA Math Department’s Seminar Page: https://www.uta.edu/math/events/seminars/
Contact Professor Vancliff for more information.