



The ARCS Seminar

Weird Rings

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Abstract: Most real numbers are transcendental over the rationals. But almost all of the real numbers we are familiar with are rational. And the few transcendentals we do actually run into (e , π , etc) are not easy to work with.

Let D be a two-dimensional regular local ring with quotient field K . Several years ago we set out to characterize all the integrally closed rings between D and K . It feels like this collection of rings is much like the real numbers. Not many are Noetherian or Krull or Prufer or . . . Most are exotic rings that don't fit neatly into standard categories.

This is joint work with Bill Heinzer, Bruce Olberding, and Matt Toeniskoetter.

Time and Place: Wednesday, March 13 from 4:30–5:30PM (Mountain Time Zone) in ENG 187



The Rings and Wings Seminar is an activity of ARCS.
<https://arcs-center.org>