

1125-VU-2616      **Luke Morgan Williams\*** (lukewilliams@math.ksu.edu). *Infinite Families of Non-Stein Rational Balls*. Preliminary report.

A standard obstruction to a 4-manifold being realized as a Stein domain relies on the adjunction inequality. This obstruction fails to apply directly in the case when the manifold in question is a rational homology ball. In spite of this, I will demonstrate how this obstruction can be modified to produce infinite families of irreducible rational balls that do not support a Stein structure (in either orientation). (Received September 20, 2016)