David Hren\* (dhren@nmsu.edu), Department of Mathematical Sciences, P.O. Box 30001, Department 3MB, Las Cruces, NM 88003. Fibers of Complete Scalar Extensions.

Let  $(R, \mathfrak{m})$  be a local, Noetherian domain with quotient field Q. Heinzer, Rotthaus, and Sally showed that  $\dim \widehat{R} \otimes_R Q = \dim R - 1$  if and only if R is birationally dominated by a residually finite DVR by establishing a 1 - 1 correspondence between prime ideals in the generic formal fiber of R of height  $\dim R - 1$  and residually finite DVR overrings. In this talk, we discuss a generalization of their result using the notion of a complete scalar extension introduced by Schoutens. (Received August 23, 2012)