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Sarah Glaz* (glaz@math.uconn.edu), Department of Mathematics, University of Connecticut, Storrs, CT 06269. *Weak Dimensions of Total Rings of Quotients*. Preliminary report.

In a recent investigation, jointly with Silvana Bazzoni, we considered several homological Prufer-like properties of rings. Two features stood out throughout the investigation. The first is that the relations among these Prufer-like properties for a ring R , depend heavily on the Prufer-like properties of the total ring of quotients of R . The second is that these properties can best be investigated through the clarification of the weak global dimensions, and the finitistic projective dimensions of all rings involved. In this talk we will discuss several results, examples, and conjectures regarding the weak global dimension, and the finitistic projective dimension of total rings of quotients with various Prufer-like conditions. (Received January 06, 2007)