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The D+M Construction and a Generalization. Preliminary report.

In 1976 J.W. Brewer and E.A. Rutter investigated certain ring and ideal theoretic properties that behave nicely in the now well-studied D+M construction. In more recent years, it has become desirable to obtain similar results in pullback constructions of greater generality. We will survey some past and present results concerning the transfer of ring and ideal theoretic properties in a special case of a pullback diagram called a conductor square. In particular, we will investigate the transference of Noetherian-like properties in a regular conductor square. (Received January 24, 2011)