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**Timothy J. Ford\*** (ford@fau.edu), Department of Mathematics, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431. *A Family of Nonnormal Double Planes Associated to Hyperelliptic Curves*. Preliminary report.

Preliminary report. Let  $C$  be the affine hyperelliptic curve defined by  $y^2 = g(x)$ , where  $g(x)$  is a polynomial of degree at least three over a field  $k$ . Starting with an example that originally appeared in an article by the author and F. DeMeyer, a nonnormal rational affine double plane  $X \rightarrow \mathbb{A}_k^2$  is constructed together with a one-to-one homomorphism from the subgroup of torsion elements in the Picard group of  $C$  to the Brauer group of  $X$ . This construction is generalized to the situation where  $C$  is an arbitrary affine variety. (Received July 12, 2017)