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Nivedita Bhaskhar* (nbhaskh@emory.edu). *A proof by patching of the cyclicity of prime degree algebras over p -adic curves.* Preliminary report.

It is well-known by a result of Saltman that any central division algebra D over the function field of a p -adic curve of prime degree q (not equal to p) is cyclic. The proof involves a detailed analysis of the shape of the algebra at the nodal points on the ramification locus of D and the residual Brauer classes at co-dimension one points. In this talk, we give a different proof of Saltman's theorem by using the patching techniques of Harbater-Hartmann-Krashen to construct a cyclic "lift of residues" which splits the algebra under consideration. (Received February 02, 2015)