1056-11-1014 Mihran Papikian* (papikian@math.psu.edu), Department of Mathematics, Pennsylvania State University, University Park, PA 16802. On generators of arithmetic groups over function fields.

Let $K = \mathbb{F}_q(T)$ be the field of rational functions with \mathbb{F}_q -coefficients and $A = \mathbb{F}_q[T]$ be the subring of polynomials in K. Let H be a division quaternion algebra over K which is split at 1/T. Given an A-order \mathcal{H} in H, we determine an explicit set of generators of \mathcal{H}^{\times} . The proof uses Bruhat-Tits trees and modular curves of \mathcal{D} -elliptic sheaves. (Received September 19, 2009)