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**Tony Feng\*** ([tonyfeng@stanford.edu](mailto:tonyfeng@stanford.edu)), 450 Serra Mall, Stanford, CA 94035. *A base change fundamental lemma via the geometry of shtukas.*

We will present a geometric proof of a base change fundamental lemma for parahoric Hecke algebras over local function fields. The argument, which is based on ideas of Ngo Bao Chau, works by comparing the cohomology of various moduli spaces of shtukas, which have played a fundamental role in recent breakthroughs on the Langlands correspondence over function fields. (Received August 08, 2018)