Michael Woltermann* (mwoltermann@washjeff.edu), Washington and Jefferson College, Mathematics Department, 60 S. Lincoln St., Washington, PA 15301-4801. Fregier Families of Conics.

Fregier's Theorem states that if from a point P on a conic any two perpendicular lines are drawn cutting the conic in points Q and R, then line QR meets the normal at P at a fixed point P'. This talk presents a traditional older proof of the theorem and looks at the locus of P', and what happens when this process is iterated both forwards and backwards. (Received September 07, 2012)