1003-11-149   **Anthony M Shaheen*** (`ashaheen@math.ucsd.edu`). *A Trace Formula For Finite Upper Half Planes.*

We give an analogue of the Selberg Trace Formula for Finite Upper Half Planes. The formula gives a relationship between weighted sums of the traces of the adjacency matrices of the finite upper half plane and sums over conjugacy classes of GL(2,Fq). (Received August 12, 2004)