1031-58-50 **Matilde Marcolli*** (`marcolli@mpim-bonn.mpg.de`), Max Planck Institute for Mathematics, Vivatsgasse 7, D-53111 Bonn, Germany. *Modular forms in noncommutative geometry.*

I will describe how noncommutative geometry produced natural noncommutative spaces associated to elliptic modular forms that enrich the geometry of the tower of modular curves. This will be an overview based on results of joint work with Connes, with Consani, and with Manin. (Received July 31, 2007)