

1106-00-1181 **X Chang*** (xic58@pitt.edu). *Homotopy and homology theory of the moduli of elliptic curves.*

Elliptic curves have wide connections to areas ranging from modular forms to cryptography. We study the homotopy and homology theory of moduli spaces of elliptic curves, and certain computational problems in elliptic cohomology, elliptic genus and elliptic curve cryptography. (Received September 11, 2014)