

1112-11-464

Luca Candelori and **Cameron Franc*** (francc@umich.edu). *Geometric foundations of the theory of vector valued modular forms.*

We will report on recent joint work with Luca Candelori on the construction of certain vector bundles on the moduli stack of elliptic curves whose global sections are vector valued modular forms. This perspective yields standard geometric proofs of many known results on vector valued modular forms. We will review these results, and discuss new directions in the subject indicated by the geometric perspective. (Received August 10, 2015)