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**Ana Cannas da Silva\*** (acannas@princeton.edu). *Number Theory from Atiyah-Bott for Orbifolds*. Preliminary report.

Reciprocity laws of Dedekind and Rademacher, as well as higher-dimensional generalizations of these, are deduced by applying an adaptation of the Atiyah-Bott formula to appropriate elliptic complexes on twisted projective spaces. (Received August 07, 2007)