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Higher Verlinde formula and Mirror symmetry

The Verlinde formula describes the dimensions of global sections of Theta-line bundles over the moduli \mathcal{Bun}_G of G -bundles on a curve. I will review the generalizations to vector bundles (due to Woodward and myself) and the relation to 3-dimensional topological gauge theory "with Hyperkaehler linear matter," via the Coulomb branch of the same.