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Volumes of moduli spaces of flat bundles over surfaces and the Verlinde formula

We explain how to derive the Witten series calculating the symplectic volume of moduli spaces of flat G -connections over surfaces from the Verlinde formula. We also demonstrate how to calculate such multiple Bernoulli series for classical root systems; certain special cases of these give multiple zeta values. This is joint work with V. Baldoni and M. Vergne.