Strings in SU(N) gauge theories in 2+1 dimensions: beyond the fundamental representation

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We calculate energies and tensions of closed strings in (2+1)-dimensional SU(N) gauge theories with N=4,5,6,8. Extending our previous work on strings in the fundamental representation, we now study higher representations. We study several systematic uncertainties in the calculation of the string tensions and compare our results with the analytic predictions of the Karabali and Nair approach. We discuss this comparison, the N-dependence of the results, and various features of the emerging spectrum.