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M&m-strings and Modular Forms

In this talk I discuss relations between M-strings (one-dimensional intersections of M2-branes and M5-branes) in six dimensions and m-strings (magnetically charged monopole strings) in five dimensions. For specific configurations, I propose that the counting functions of BPS bound-states of M-strings capture the elliptic genus of the moduli space of m-strings. As a check of this proposal I discuss the Taub-NUT and Atiyah-Hitchin spaces for which I find complete agreement with results in the literature.