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Free energy and BPS Wilson loop in N=2 superconformal theories

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I will discuss some recent work on strong-coupling expansion of leading non-planar corrections in several examples of N=2 superconformal models that are planar-equivalent to N=4 super Yang-Mills theory and dual to type II superstring in orbifolds/orientifolds of AdS5 x S5. Starting with the localization matrix model one finds that the large 't Hooft coupling asymptotics of the coefficient of non-planar correction to Wilson loop expectation value is in agreement with a universal prediction on the dual string theory side.

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