

# Curved Space Supersymmetry and the Partition Function

*Monday, 11 August 2014 14:00 (1 hour)*

The study of supersymmetric quantum field theories on compact manifolds has led to a plethora of new exact results in recent years. One of the simplest observable in this context is the supersymmetric partition function on a manifold  $M$ ,  $Z_M$ , which can often be computed exactly.

In the case of theories with four supercharges in flat space, I will explain some general properties of  $Z_M$  which can be understood on general ground. This understanding explains many properties of previously obtained localization results and makes sharp predictions for future computations.

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