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## Fermi gas formulation for D-type quivers

*Wednesday, 15 April 2015 16:20 (30 minutes)*

I will explain that the exact partition function of D-type  $N=4$  quivers SCFTs on a three-sphere coincides with the partition function of a gas of free fermions in one dimension with a non-standard Hamiltonian. I will describe briefly the mirror dual quiver theories and show that mirror symmetry is expressed as a simple canonical transformation on the density operator of the quantum mechanics. Finally I will discuss the exact evaluation of the perturbative part of the free energy for these theories, which takes the form an Airy function, and emphasize the perspectives for holography.

**Presenter:** ASSEL, Benjamin

**Session Classification:** Parallel Session