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BPS quivers, Galois covers and dualities in supersymmetric quantum mechanics

Wednesday, 9 April 2025 12:05 (35 minutes)

I will present some new results about supersymmetric quantum mechanics (SQM) related to the study of half-BPS states of 4d $N=2$ SQFTs, including 5d SCFT on a circle, as well as about SQM related to vortex lines in 3d $N=2$ gauge theories. On the one hand, I will revisit the so-called Galois cover of 1d $N=4$ SQM quivers, which allow us to relate the BPS spectra of very different theories in non-trivial ways. On the other hand, I will present new observations about Seiberg-like dualities in 1d $N=2$ SQM with unitary gauge groups. Many of these observations have (or should have) an interpretation in terms of branes at singularities.

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