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BPS algebras for 4D $N=2$ theories and their line defects.

Thursday 19 September 2024 09:15 (1 hour)

I will first explain the BPS algebras for 4D $N=2$ theories in terms of cohomological Hall algebras. We conjecture that for a theory whose BPS spectrum admits a quiver description that is 2-acyclic with infinitely-mutable potential, the BPS algebra reduces to spherical shuffle algebra. I will then explain how to study the $1/2$ -BPS line defects in the theory as the bimodules of its BPS algebra.

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