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Algebraic aspects of linking and unlinking for symmetric quivers

Friday 24 January 2025 11:00 (1 hour)

Several years ago, Ekholm, Kucharski and Longhi introduced operations of linking and unlinking for symmetric quivers; under these operations, the motivic generating series associated to symmetric quivers transform in a controllable way. I shall discuss two recent categorifications of these operations: the one via quadratic algebras associated to symmetric quivers (this is my joint work with Feigin, Kucharski and Reineke), and the other that can be exhibited on the level of quiver representations (recent work of van Garderen). I shall also outline a relationship between these two interpretations using vertex algebraic interpretation of CoHA (my work with Mozgovoy) and Koszul duality.

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