

Quantization in Representation Theory, Derived Algebraic Geometry, and Gauge Theory



Contribution ID: 2

Type: **not specified**

The derived critical locus and applications to COHAs

Monday 16 September 2024 11:00 (1 hour)

In a first part I will explain how the -1 shifted symplectic structure on the derived critical locus matches the one induced (thanks to Brav–Dyckerhoff) by a 3-Calabi–Yau one on the deformed completion (as defined by Ginzburg and more generally Keller) of a finite type dg category. This is part of a joint work with Damien Calaque and Sarah Scherotzke.

In a second part I will try to explain how this result induces various examples of COHAs, following constructions of Kinjo, Park, Masuda, Safronov.

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