

Towards a definition of the Fukaya-Seidel category with coefficients over the complex plane

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In this segment of our joint work in progress with Haiden, Katzarkov and Pandit, we consider a graph in the plane. We propose a definition of the A-infinity category of objects over the graph, with coefficients in a fixed appropriate DG-category, including disk corrections corresponding to the regions in the plane cut out by the graph. We can write down an explicit set of A-infinity operations, and have a heuristic comparison with Abouzaid's definition that suggests why the A-infinity axioms should hold.

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