

SKEIN CATEGORIES

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Abstract:

In this talk I will introduce skein categories which are a categorical analogue of skein algebras based on the category of coloured ribbon tangles. In my thesis I proved that skein categories satisfy excision. In this talk I shall outline a couple of applications of this result. Firstly, to proving that the k -linear factorisation homology of surfaces is given by the skein categories and, secondly, to the quantisation of character varieties.