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Vector Spin Models and Spherical Integrals

Wednesday 28 September 2022 11:20 (20 minutes)

In this talk we consider the asymptotics of spherical integrals of sublinear rank. In this regime, the spherical integrals are approximately the products of 1-dimensional spherical integrals. This extends the results for finite dimensional spherical integrals proven by Guionnet, Husson and Maïda. These spherical integrals will allow us to study the spherical SK vector spin model when the number of replicas are dependent on the dimension. This is joint work with Jonathan Husson.

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