

Supersymmetric and conformal theories on the lattice: from super Yang-Mills towards super QCD

Friday, July 27, 2018 5:10 PM (20 minutes)

This talk is an overview of our recent investigations of supersymmetric and near conformal gauge theories. We have studied extensively $\mathcal{N} = 1$ super Yang-Mills theory, most recently with the gauge group $SU(3)$. In addition we have investigated theories that show indications for a conformal behaviour with an infrared fixed point. More recently we have included a mixed fundamental and adjoint fermion action setup in our studies. I will explain how this is related to the investigation of supersymmetric QCD on the lattice and present some first studies of the main obstacles that need to be addressed in the investigation of this theory.

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