

QCD and Quantum Information Science

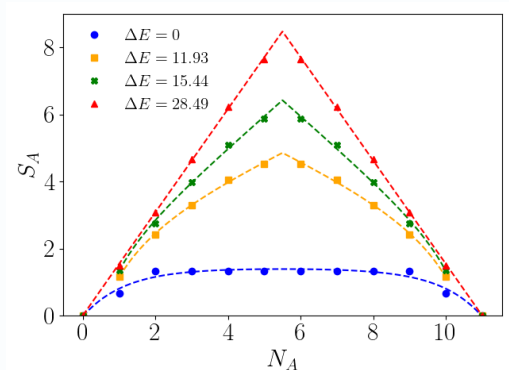


Colloquium talk
by

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We have tried for many years (off and on) to better understand thermalisation and hadronization of QCD in heavy ion collisions combining different approaches: Lattice QCD, pQCD, AdS/CFT holography, non-linear dynamics etc. In the last two years we have tried to add QIS to our toolbox. The goal of this talk is twofold: To give a feeling for how powerful modern QCD and string theory is, also for problems from QIS, and to sketch our attempts to profit from the rapid progress of QIS. As is often stressed, to understand thermalization of non-abelian gauge theories in one of the major long term goals of all the scientific fields involved and thus by its very nature a highly inter-disciplinary effort.



 Tuesday, 20th May, 16:30

 HS C, Victor-Franz-Hess-Haus

Organizers: Katrin Erath-Dulitz, Hanns-Christoph Nägerl, Tim Schrabback