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QCD Phase Structure and Imaginary Endpoints

Tuesday, 15 June 2010 18:00 (20 minutes)

We consider the endpoint of the Roberge-Weiss first order transition line, which is present for imaginary values of the baryon chemical potential, and study its nature in two flavor QCD as a function of the quark masses. We present evidence that the endpoint is first order (hence a triple point) for low quark masses, discuss the fate of the further first order lines departing from it, and explore the consequences which may be relevant to the structure of the QCD phase diagram.

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talk

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