

CU Physics Department Colloquium

Monday, March 2, 2009 4:10 PM 428 Pupin Hall



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"Cim: Hadron spectrum and the QCD transition"

More than 99% of the mass of the visible universe is made up of protons and neutrons. Both particles are much heavier than their quark and gluon constituents, and the Standard Model of particle physics should explain this difference. A full ab initio calculation of the masses of protons, neutrons, and other light hadrons, are presented using lattice quantum chromodynamics. The results completely agree with experimental observations. The generation of this hadronic mass is related to a transition in the early universe, which is also discussed.

Hosted by Miklos Gyulassy

Meet the speaker will be held at 3:30 PM in 705 Pupin