## XIIth Quark Confinement and the Hadron Spectrum



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## Quark matter Equation of State from perturbation theory

Monday 29 August 2016 16:00 (30 minutes)

I will discuss recent advances in the perturbative description of the thermodynamic properties of cold unpaired quark matter. After presenting new results for the temperature dependence of the Equation of State (EoS), I will describe recent advances in determining the next four-loop term in the weak coupling expansion of the zero-temperature EoS. The potential implications of these results to neutron star phenomenology will be discussed in detail.

## Summary

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