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## **\*Leading Talk\* Magnetic properties of light nuclei from lattice QCD**

*Monday, 29 June 2015 14:30 (25 minutes)*

I will present the recent results of lattice QCD calculations of the interactions of nucleons and light nuclei with magnetic fields. Their magnetic moments and polarizabilities have been calculated at pion masses of 805 MeV and 450 MeV. Interestingly, the magnetic moments, when given in terms of natural nuclear magnetons, are found to be consistent with the experimental values. I also present first results for the cross section for  $n + p \rightarrow d + \gamma$ .

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