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## Update on charm annihilation contribution to the hyperfine splitting in charmonium

*Thursday, 17 June 2010 17:00 (20 minutes)*

We report our final results for the contributions of the disconnected diagrams to the hyperfine splitting in charmonium. Our study includes both the quenched and dynamical cases on ensembles with lattice spacings of approximately 0.06 fm and 0.09 fm. Our new approach tunes the charm quark mass so that the rest mass of the  $\eta_c$  is close to its physical value. This method of tuning gives a better accounting of the glueball interactions contributing to the mass shift of the  $\eta_c$  and  $J/\psi$ .

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talk

**Primary authors:** Prof. DETAR, Carleton (University of Utah); LEVKOVA, Ludmila (University of Utah)

**Presenter:** LEVKOVA, Ludmila (University of Utah)

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