



Contribution ID: 4

Type: **Invited**

Nuclear shape and QED effects in muonic atoms

Friday, 21 October 2016 11:00 (30 minutes)

In this talk I will describe QED calculations of transition energies in muonic atoms. I will particularly focus on the nuclear model dependence of the Coulomb and QED corrections. IN particular, energies evaluated using Fourier-Bessel or Sum of Gaussian and Fermi models with identical mean-spherical radius will be compared. Effect on the hyperfine structure will be also be examined.

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Session Classification: Muon spectroscopy for nuclear charge radii