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## Three particle muon-electron bound systems in the variational approach

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Within the framework of the variational method in quantum electrodynamics, the energy levels of bound states of three particles muon-electron-nucleus with light nuclei are studied. The calculation uses a Gaussian basis for trial wave functions. The electron and muon Lamb shifts in such three-particle systems are calculated.

**Primary author(s) :** ESKIN, Alexey

**Co-author(s) :** MARTYNENKO, Fedor (Samara University); MARTYNENKO, Alexei (Samara U.); KOROBV, Vladimir (JINR)

**Presenter(s) :** ESKIN, Alexey

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