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Radiative corrections of order alpha(Z alpha)^6 in the energy spectrum of muonic hydrogen

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Radiative QED corrections of order alpha(Z alpha)^6 to the energy spectrum of muonic hydrogen have been calculated. They are determined by the amplitudes of the three-photon exchange interaction involving one radiative photon. Nuclear structure effects arising from the expansion of electromagnetic form factors have been taken into account. An interparticle interaction potential is constructed for each QED amplitude, and its contribution to the atomic energy spectrum is obtained.

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