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Two effective potentials for spin-independent relativistic and QED corrections to the Rydberg energy levels of helium[1] J. BABB, ITAMP, Harvard-Smithsonian — The effective potentials for energy corrections arising from one and two transverse photon exchange in Rydberg states of helium are reanalyzed. The result, expressed as an integral over the virtual photon frequency, is compared to the Araki-Sucher effective potential and its applicability to actual calculations of energy shifts is assessed.

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James Babb
Harvard-Smithsonian CfA

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