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Reviewer: Znojil, Miloslav

Reviewer number:

Address:

M. Znojil,
Theory Group, NPI AS CR,
250 68 Rez, Czech Republic
znojil@ujf.cas.cz

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Review text:

The existence of the hypergeometric (confluent as well as Gauss') ordinary linear differential equation finds useful applications in quantum mechanics where the construction of many dynamical models proves reducible to the hypergeometric Sturm-Liouville problem (often leading to polynomial eigenfunctions as a bonus). The paper describes several examples of this type. Its contents are well summarized by its title.