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Jordan Algebras and Dynamical Conformal Symmetries

jeudi 2 juin 2022 11:00 (45 minutes)

The Newton-Hooke duality between the 2D hydrogen atom and the Landau problem is explained via the Tits-Kantor-Koecher construction of the conformal symmetries of the Jordan algebra of real symmetric 2×2 matrices. The connection between the Landau problem and the 3D hydrogen atom is elucidated by the reduction of a Dirac spinor to a Majorana one in the Kustaanheimo-Stiefel spinorial regularization.

Auteur principal: POPOV, Todor

Orateur: POPOV, Todor