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Tachyon, Dp-branes and quasi-exact-solvability

Abstract

Quasi exactly solvable (QES) equations refer to a class of spectral differential, equations for which a part of the spectrum can be computed by algebraic methods. We will present several examples of such equations, some of them are related to, the study of sphaleron solutions in a simple field theory mimicking the bosonic sector of the Lagrangian of electroweak interactions. Application to toy models describing "tachyon condensation on brane sphaleron", will be attempted.