



Mathematical Physics

Matrix Superpotential Linear in Variable Parameter

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The paper presents the classification of matrix valued superpotentials corresponding to shape invariant systems of Schrödinger equations. All inequivalent irreducible matrix superpotentials realized by matrices of arbitrary dimension with linear dependence on variable parameter are presented explicitly.

Comments: 11 pages, stylistic corrections were added, some signs were corrected

Subjects: **Mathematical Physics (math-ph)**; High Energy Physics - Theory (hep-th); Quantum Physics (quant-ph)

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