

The 2×2 Toda System in a general setting

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We consider the classical 2×2 Toda system where the classical Cartan matrix is replaced by a more general one. Using the bifurcation theory we derive the existence of a nontrivial pair of radial solutions. The Legendre polynomials plays a crucial role in the construction of the solution.

This is a joint paper with F. Gladiali and J. Wei.