A super-integrable discretization of the Calogero model

Hideaki Ujino Gunma National College of Technology, 580 Toriba, Maebashi, Gunma 371-8530, Japan

A time discretization that preserves the super-intergrability of the Calogero model is obtained by application of the integrable time discretization of the harmonic oscillator to the projection method for the Calogero model with continuous time.