

## A Classical Toda Family with a Common Virasoro Symmetry Algebra

QIAN Xian-Min<sup>1,2</sup> and LOU Sen-Yue<sup>1,3</sup>

<sup>1</sup> Department of Physics, Shanghai Jiao Tong University, Shanghai 200030, China

<sup>2</sup> Department of Physics, Shaoxing College of Arts and Sciences, Shaoxing 312000, China

<sup>3</sup> Department of Physics, Ningbo University, Ningbo 315211, China

(Received: 2004-2-23; Revised: )

Abstract: By means of a simple ideal, which is firstly proposed for the continuous system, we present an arbitrary order classical Toda family invariant under common Virasoro-type symmetry algebra.

PACS: 02.30.Jr, 02.30.Ik, 05.45.Yv

Key words: classical Toda family, Virasoro symmetry algebra

[\[Full text: PDF\]](#)

Close