Hirota's bilinear method and soliton solutions

Jarmo Hietarinta*

Department of Physics, University of Turku, Turku, Finland

ABSTRACT

In this lecture we will first discuss integrability in general, its meaning and significance, and then make some general observations about solitons. We will then introduce Hirota's bilinear method, which is particularly useful in constructing multisoliton solutions for integrable nonlinear evolution equations.

^{*} e-mail: Jarmo.Hietarinta@utu.fi