Head-on Collisions of Nonlinear Schrödinger waves

KDSMIL001 — June 2021

Abstract

We will study the collisions of two solitons in media with saturation nonlinearity properties. This will be done using two different numerical methods, split step and implicit finite difference/Crank-Nicolson, in order to compare their benefits and drawbacks.
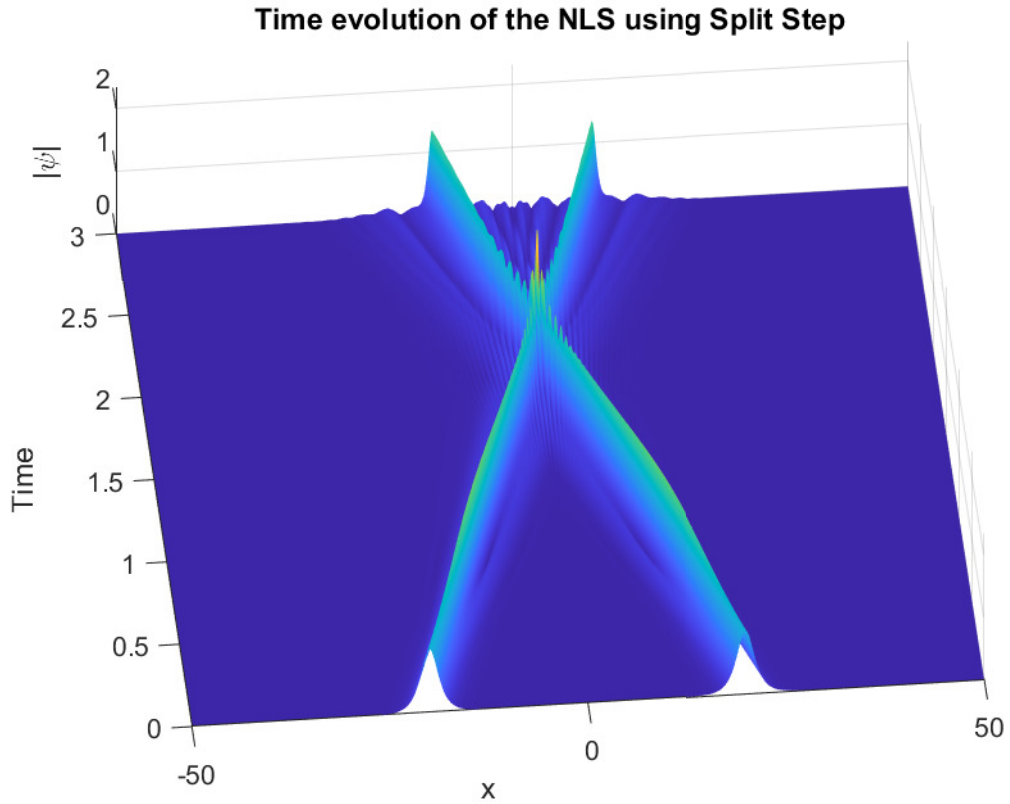

Figure 0.1: caption