



Lehrstuhl für Analysis und Modellierung

**Lehrstuhl-Seminar
Sommersemester
2018**

Prof. Ziad Musslimani
(Florida State University)

**Reverse space-time nonlocal NLS
equation: Integrability, singularity
formation and dynamics**

6. Juli 2018 - 11:00

Seminarraum IADM 8.526, Pfaffenwaldring 57

Abstract: In this talk we will introduce a new type of one-dimensional NLS equation that is nonlocal in both space and time, show that it is integrable and give few conservation laws. Furthermore, we prove that its soliton solution develops a singularity in finite time and present some results related to dynamics of a general localized initial conditions.