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

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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.