

# Well-posedness for the Novikov-Veselov equation

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## **Abstract:**

The purpose of this talk is to present some recent results dealing with the local existence problem for the NV equation, a two dimensional model obtained as the mathematical generalization of KdV. We will show that, unlike standard physical models like KP equations, the NV equations have strange properties that can be used to describe a more complex picture of the long time dynamics for zero and nonzero energy solutions. This is a joint work with Anna Kazeykina (LMO, Orsay).