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Well-posedness and ill-posedness issues for the Novikov-Veselov equation.

In this talk I will describe some recent work on the Novikov-Veselov equation. Using the Fourier restriction method, I will talk about some well-posedness and ill-posedness results for this equation in certain Sobolev spaces. Finally I will discuss some similar results that apply to some related models. (Received January 22, 2014)