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Stability of line solitons for the KP-II equation

The KP-II equation was derived by Kadomtsev and Petviashvili to explain stability of line solitary waves of shallow water. In this talk, I will show stability of 1 -line solitons for perturbations in the class $(1+x^2)^{-1/2-0}H^1(\mathbb{R}_{x,y}^2)$.