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Type: Lecture

Bargmann gas solution to the mKdV equation

Thursday, June 6, 2024 11:00 AM (50 minutes)

We construct a new class of (gas) solutions of the mKdV equation as a limit of 2N solitons, eventually in the presence of an additional dispersive coefficient. We also analyze the long-time behaviour of the profile: the solution is asymptotically an elliptic solution at both $x \to \pm \infty$, with same parameters, but different shift x_0^{\pm} . This is a joint work with Ken McLaughlin (Tulane U.) and Robert Jenkins (UCF).

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