

## 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  $x \rightarrow \pm\infty$ , 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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