ID de Contribution: **24** Type: **Non spécifié**

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lundi 1 décembre 2025 09:45 (1 heure)

A proof of the soliton resolution conjecture for the Benjamin-Ono equation

The soliton resolution conjecture for the Benjamin-Ono equation states that every solution on the line with a sufficiently smooth and decaying initial datum expands as time tends to infinity as a finite sum of decoupled soliton solutions added to a radiation term.
I will state a precise version of this conjecture and I will describe the main steps of it proof. This is a joint work in collaboration with Louise Gassot and Peter Miller.