Contribution ID: **61**   Type: **Scheduled Talks**

Reduction by Stages for Affine W-algebras

Friday, July 25, 2025 2:30 PM (30 minutes)

Affine W-algebras form a family of vertex algebras generalising affine and Virasoro Lie algebras. They are in 1-to-1 correspondence with some affine Poisson varieties, the Slodowy slices. In this talk, I will present how one can use Poisson geometry to prove reduction by stages for affine W-algebras. By definition, we say that reduction by stages holds whenever some W-algebra can be obtained as the noncommutative Hamiltonian reduction of another W-algebra. This work is joint with Naoki Genra.

Author: JUILLARD, Thibault (Université Paris-Saclay / Polytechnique)

Presenter: JUILLARD, Thibault (Université Paris-Saclay / Polytechnique)