

Folded quantum integrable models and deformed W -algebras

Tuesday, January 30, 2024 11:00 AM (1h 30m)

(joint work with E. Frenkel and N. Reshetikhin)

We propose a novel quantum integrable model for every non-simply laced simple Lie algebra \mathfrak{g} . Its spectra correspond to solutions of the Bethe Ansatz equations obtained by folding the Bethe Ansatz equations associated to the simply-laced Lie algebra \mathfrak{g}' (corresponding to \mathfrak{g}). Our construction is motivated by the analysis of the second classical limit of the deformed W -algebra of \mathfrak{g} . We conjecture, and verify in a number of cases, that the spaces of states of the folded integrable model can be identified with finite-dimensional representations of the Langlands dual (twisted) quantum affine algebra.

The seminar will also be accessible online: <https://www.ihp.fr/en/live> and/or <https://univ-cotedazur.zoom.us/j/3777115746?omn=83887855>

Recording will be available later on: <https://www.carmin.tv/en/>

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