

SEMPARIS – Séminaires en région parisienne

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Séminaire de physique mathématique

Lundi 17 Septembre 2018, 11 :00

IPHT, Salle Claude Itzykson, Bât. 774

Domaines : math-ph

Titre : *An update on the q -deformed Haldane–Shastry model*

Orateur : **Jules Lamers (Stockholm)**

Résumé : *Earlier this year at IPhT, I presented a new and simpler expression for Uglov’s Hamiltonian of the q -deformed Haldane–Shastry model, a long-range spin chain enjoying quantum-affine symmetries already at finite system size. After reviewing the model I will present its (conjectural) exact (highest-weight) eigenvectors, whose wave functions are essentially a q -Vandermonde factor squared, times a Macdonald polynomial (with $t = q^2$), -decorated- by some Hecke generators. This is ongoing work together with Vincent Pasquier and Didina Serban.*
