Séminaire de physique mathématique

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(voir dans annonce)

The structure of the representations of the affine Temperley-Lieb algebras on the periodic XXZ chain

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The affine Temperley-Lieb algebras aTLN(β) are a family of infinite dimensional algebras generalizing the well-known Temperley-Lieb algebras TLN(β). They play, for the periodic XXZ chain, the role played by the original Temperley-Lieb algebra for the open XXZ chain. Their representation theory is much richer than that of the original TL family and admits a lot of similarities with the representation theory of the Virasoro algebra Vir. In particular, we will show in this talk that the representations of aTLN(β) on the periodic XXZ chains admits a structure akin that of the so-called Feigin-Fuchs Vir-modules. To do this, we will highlight the link between these representations and other canonical modules over aTLN(β) (the standard modules) while building up on the well-known quantum Schur-Weyl duality between TLN(β) and Uqsl2.

The seminar is online only.
Internet link to be collected from the Organizer: vincent.pasquier@ipht.fr