SEMINAIRE DE PHYSIQUE THEORIQUE

Le Jeudi 22 septembre à 14h00 Salle 1180 (Bât E2) (Tours)

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Elliptic algebra $U \{q,p\}(g)$: Recent advance and future project for $g=(hat\{sl\}(M|N))$

Résumé:

We introduce the elliptic superalgebra $U_{q,p}(\hat{s})(M|N)$ as one parameter deformation of the quantum superalgebra $U_{q}(\hat{s})(M|N)$. In the case of level $\hat{s} \neq 0$, -N+1, we give the free field realization of the elliptic superalgebra $U_{q,p}(\hat{s})(N|1)$ and its screening current that commute with $U_{q,p}(\hat{s})(N|1)$ modulo total difference. We demonstarate future research projects for the elliptic superalgebra $U_{q,p}(\hat{s})(M|N)$, by showing the results (commuting operator, vertex operator, boundary problem) for non-super algebra $U_{q,p}(\hat{s})(N)$.