ID de Contribution: 13 Type: Non spécifié

## Supersymmetric generalization of q-deformed long-range spin chains of Haldane-Shastry type.

We discuss a matrix spin generalization of Ruijsenaars-Macdonald operators. We construct a commuting set of matrix-valued difference operators in terms of trigonometric GL(N|M)-valued R-matrices. Next, we present construction of long-range spin chains using the Polychronakos freezing trick. As a result, we obtain a new family of spin chains, which extends the gl(N|M)-invariant Haldane-Shastry spin chain to q-deformed case with possible presence of anisotropy. Joint work with Andrei Zotov, arXiv:2312.04525.

Orateur: MATUSHKO, Maria