

Quantum invariants of knots and 6-j symbols

Alexey Sleptsov

ITEP
B.Chermushkinskaya
Moscow, Russia

Joint work with: A.Mironov, A.Morozov

We discuss recent progress in evaluation of colored knot polynomial invariants with the help of quantum algebra $U_q(sl_N)$. This approach is based on Reshetikhin-Turaev method, which reduces the problem to the study of quantum R-matrices and quantum 6-j symbols.