Friday, October 15th (at 3.00pm, UK time)

Oleg Chalykh (Leeds)
Title: Twisted Ruijsenaars model.

ABSTRACT

The quantum Ruijsenaars model is a q-analogue of the Calogero—Moser model, described by n commuting partial difference operators (quantum Hamiltonians) h_1, ..., h_n.

As it turns out, for each natural number \ell>1 there exists another integrable system whose quantum Hamiltonians have the same leading terms as the \ell-th powers of h_1, ..., h_n.

I will discuss several ways of arriving at this generalisation.