

Generalizations of spin Sutherland models from Hamiltonian reductions of Heisenberg doubles.

We explain how Ruijsenaars–Schneider type deformations of two types of trigonometric spin Sutherland models arise from Hamiltonian reductions of Heisenberg doubles of compact semisimple Lie groups in general and from an extended Heisenberg double of the unitary group $U(n)$ in particular. As of writing, the quantization of the resulting classical integrable systems is still an open problem.

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