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Richard Rimanyi* (rimaryi@email.unc.edu). *R-matrices acting on the cohomology of flag varieties.*

We will explore some connections between equivariant topology and physics. On the topology side we will consider singularities and fundamental cohomology classes of conormal bundles of Schubert varieties. On the physical side we will study Yangian modules. A key object in the connection of the two sides is the “weight function” introduced by Tarasov and Varchenko in order to construct q -hypergeometric solutions of qKZ equations. This is a joint work with V. Tarasov and A. Varchenko. (Received January 20, 2014)