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Abelianization in integrable systems and quantization

Guillemin and Sternberg's Gelfand-Cetlin systems are related to important topics at the interface of symplectic geometry and representation theory. I will propose and partially substantiate a generalization of these systems and their broader implications. A key technical ingredient will be an abelianization theorem for symplectic quotients in arbitrary Lie type. This represents joint work with Jonathan Weitsman.