

Birational Maps Between Poisson-Lie Groups from Cluster Coordinates

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Abstract

This is a part of a joint project with M. Shapiro and A. Vainshtein on constructing cluster structures on $GL(n)$ compatible with Poisson-Lie brackets arising in the Belavin-Drinfeld classification. I will explain how a Poisson birational map from $GL(n)$ equipped with a Belavin-Drinfeld Poisson bracket to the standard Poisson-Lie group $GL(n)$ arises naturally in this context.