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Cremmer-Gervais Cluster Algebras

I will report on an ongoing joint project with M. Shapiro and A. Vainshtein devoted to a conjectural correspondence between classes in the Belavin-Drinfeld classification of Poisson-Lie structures on a simple Lie groups and cluster algebra structures in the ring of regular functions on the group. I will concentrate on the case associated with the Cremmer-Gervais r -matrix, that is the farthest away from the standard Poisson-Lie structure in $SL(n)$ and describe the corresponding cluster algebra.