

# A UNIVERSAL CONSTRUCTION OF UNIVERSAL DEFORMATION FORMULAS AND DRINFEL'D TWISTS

STEFAN WALDMANN

In a recent joint work with Chiara Esposito and Jonas Schnitzer we adapted the well-known Fedosov construction of symplectic star products to the case of a quantization of a classical  $r$ -matrix into a twist. While it is known that a twist yields universal deformation formulas for algebras on which the original Lie algebra acts, we are able to directly construct these algebra deformations within the framework of a Fedosov-like construction. Finally, if the  $r$ -matrix possess additional features we are able to exploit them to obtain more specific deformations: here our first important example is a Kaehler structure which gives nice additional positivity features of the deformations and of the twists.