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Boris Tsygan* (tsygan@math.northwestern.edu), 2300 North Sherman ave, Evanston, IL 60201. Algebraic index theorem for deformation quantization.

This is a joint work with V. Dolgushev and D. Tamarkin. We prove a formula for a trace of aprojection in a deformed algebra of matrix-valued functions on a manifold. (Received August 13, 2008)