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*Algebraic index theorem for Fourier integral operators*

In their work on integral geometry, V. Guillemin and S. Sternberg introduced certain classes of Fourier integral operators which form an algebra. We describe the parallel notion in the framework of deformation quantization. We then proceed to establish the algebraic index theorem in this context.

This is a report on work in progress, joint with P. Bressler, R. Nest and B. Tsygan.