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Masoud Khalkhali* (masoud@uwo.ca), Canada. *The algebra of twisted formal pseudodifferential symbols.*

Motivated by the notion of a "twisted spectral triple", introduced by Connes and Moscovici, we shall introduce a new algebra of twisted formal pseudodifferential symbols and show that there is an analogue of the Adler-Manin noncommutative residue on such algebras. There is also a higher dimensional version. I will also introduce a very general method of producing examples (joint work with F. Fathizadeh). Time permitting, I shall also discuss a separate work on "Hopf cyclic cohomology in braided monoidal categories" (joint work with A. Pourkia, posted at <http://arxiv.org/abs/0807.3890>). (Received August 09, 2008)