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The Algebra of Formal Twisted Pseudodifferential Symbols and a Noncommutative Residue

F. Fathi-Zadeh

University of Western Ontario Canada

We introduce an algebra of formal twisted pseudodifferential symbols and extend the Adler-Manin trace to a twisted setting. We also discuss a method of producing examples by using group 1-cocycles. This is joint work with Masoud Khalkhali.