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Alexander Gorokhovsky* (gorokhov@colorado.edu), Department of Mathematics, University of Colorado, Boulder, CO 80309-0395, and **Henri Moscovici** (henri@math.ohio-state.edu), Department of Mathematics, The Ohio State University, 231 West 18th Avenue, Columbus, OH 43210-1174. *Primary and secondary invariants of algebras of pseudodifferential symbols*. Preliminary report.

We compare different constructions of cyclic cocycles for the algebra of complete symbols of pseudodifferential operators. We show that our result leads to interesting index-theoretic consequences and a construction of invariants of the algebraic K -theory of the algebra of pseudodifferential symbols. (Received September 15, 2016)