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Frederic Rochon* (rochon@math.sunysb.edu), Department of Mathematics, Stony Brook University, Stony Brook, NY 11794-3651. *The residue determinant from a topological point of view.*

After reviewing various notions of determinants on spaces of pseudodifferential operators, we will give a topological description of the residue determinant recently introduced by Simon Scott. We will then indicate how this can be used to get a global existence result for this determinant. (Received February 22, 2007)