Calculating the Fredholm index on Lie manifolds

lundi 29 mai 2017 18:05 (25 minutes)

We review Fredholm conditions for operators contained in the pseudodifferential calculus for
manifolds with a Lie structure at infinity. Then we study the problem of obtaining Atiyah-Singer type index formulas
for Fredholm operators contained in the calculus. Time permitting we discuss some of the applications of the results.

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