

**Meeting:** 1004, Bowling Green, Kentucky, SS 7A, Special Session on Semigroups of Operators and Applications

1004-34-89            **Yuri Latushkin\*** (yuri@math.missouri.edu), Department of Mathematics, University of Missouri, Columbia, MO 65211. *Dichotomy Theorem, Fredholm determinants, and the Evans function.*

We study Fredholm properties of the operator  $-d/dt+A(t)$  with unbounded operators  $A(t)$  and their relations to the dichotomies of the corresponding differential equation and the "spectral flow=index"-type theorems. In the finite dimensional case, we discuss connections of the Evans function and Fredholm determinants of the corresponding sandwiched resolvent. (Received January 18, 2005)