

## Subordination in the sense of Bochner of variable order

Kristian Evans (University of Wales Swansea)

For certain classes of negative definite symbols  $q(x, \xi)$  and state space dependent Bernstein function  $f(x, s)$  we prove that  $-p(x, D)$ , the pseudo-differential operator with symbol  $-p(x, \xi) = -f(x, q(x, \xi))$ , extends to the generator of a Feller semigroup. Our result extends previously known results related to operators of variable (fractional) order of differentiation, or variable order fractional powers. New concrete examples are given.