Title: Spectral multipliers and Evolution equation

**Abstract:** We study the functional calculus of operators A in an  $L_p$ -scale which are typically selfadjoint on  $L_2$  and sectorial on  $L_p$  with spectrum in  $\mathbb{R}_+$ . Sharp estimates for functions of A are important for representations of the fractional domains of A and regularity estimates for evolution equations governed by A.