

**Mathematisches Oberseminar** *PDG und Spektraltheorie* (SoSe 2015).

**Date:** 23.04.2015.

**Time and place:** 14:15 in B 134.

**Speaker:** Alexander V. Sobolev (University College London (UCL)).

**Titel:** *On the Schatten-von Neumann properties of some pseudo-differential operators.*

**Abstract:**

We obtain explicit estimates for quasi-norms of pseudo-differential operators in the Schatten-von Neumann classes  $\mathfrak{S}_q$  with  $0 < q \leq 1$ . The estimates are applied to derive semi-classical bounds for operators with smooth or non-smooth symbols.

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