Week 8 (due May 28)

Reading: sections 73, 74.

- 1. BRST symmetry is a global symmetry of the gauged-fixed action and therefore, by Noether theorem, one can define the corresponding conserved current, known as the BRST current. Find the BRST current in the case of the Lorenz gauge.
- 2. Compute the current corresponding to the ghost number symmetry (in the Lorenz gauge).
 - 3. Problem 74.1 in Srednicky.