SS 2013

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Advanced Mathematical Quantum Mechanics (MQM2)

June 13, 2013

Excercises for the session on June 17

The numbers of the problems refer to the lecture notes. Please do as much as you can **before** coming to the exercise session.

Exercise 1: Solve Problem 9.3.

Exercise 2: Solve Problem A.9.1.

Exercise 3: Show that the map $C = U^*J^*V$ defined at the end of page 56 is conjugate Hermitian for bosons and conjugate anti-Hermitian for fermions.

Exercise 4: Establish the relations (52)–(58) (including Theorem 9.2) at the beginning of Section 9.

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