TMA4310 Optimal
control of PDEs
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Norwegian University of Science and
Technology
Department of Mathematical
Sciences

Exercise set 10

We continue with extending the results for linear-quadratic control of elliptic PDEs to semi-linear elliptic case.

Reading:

Section 4.3–4.4 in [Tr].

Recommended exercises:

1. Exercises 4.4, 4.5 in [Tr].

2. Consider Remarks (i) and (ii) on p. 210 in [Tr]. Construct examples explicitly demonstrating the falseness of the implications discussed in this remark.