

TRENTO, 2020/21
ADVANCED GROUP THEORY
EXERCISE SHEET # 11

Exercise 11.1.

- (1) Define Frobenius groups, proving the equivalence between
 - (a) the definition via actions, and
 - (b) the abstract definition as a group G with a subgroup $1 < H < G$ such that $H \cap H^x = \{1\}$ for $x \notin H$.
- (2) Prove the existence of the Frobenius kernel.