Physics 220, Week 2 topics

- $(\star = \text{slightly more important.})$
- More on representations.
- Examples of 1d and 2d S_3 representations.
- \star The "regular" representation for any group.
- \star Reducible, completely reducible, and irreducible representations.

• Finite groups: all reps equivalent to unitary ones, all reps either irreducible or completely reducible.

 \star Schur's lemmas. Applications in quantum mechanics.