

# SUSY reading course – preliminary plan

October 9, 2015

The preliminary format for the course is:

- Weekly meetings (find best weekday and time for everybody through e.g. doodle?), need to find room where absent people can join through skype
- $\sim 1$  h going through the previous week's reading material, one course participant responsible for presenting, then discussion
- $\sim 1$  h going through the previous week's problems, again with one responsible to steer discussion and solution
- Extra sessions focused on problem solving?
- We will follow Ian Aitchison's book "Supersymmetry in Particle Physics, An Elementary Introduction". Available as e-book through SU library (link: <http://libris.kb.se/bib/13045002>).
- Supplementary material: "Quantum Field Theory" by Mark Srednicki (available for free at <http://web.physics.ucsb.edu/~mark/qft.html>; "A Supersymmetry Primer" by Stephen P. Martin (link: <http://arxiv.org/abs/hep-ph/9709356>).

Preliminary meeting schedule and reading material (should be read before the meeting):

- 2015-10-29, kl13: Discuss and decide course format.
- 2015-11-05, kl13-15: Aitchison chapter 1,2.2; (Srednicki chapters 33-36)
- 2015-11-12, kl13-15: Aitchison 2.2-2.5; (Srednicki 33-36)
- 2015-11-19, kl13-15: Aitchison 3
- 2015-11-26, kl13-15: Aitchison 4
- 2015-12-03, kl13-15: Aitchison 5
- 2015-12-10, kl13-15: Aitchison 6
- 2015-12-17, kl13-15: Aitchison 7
- 2016-01-14, kl13-15: Aitchison 8
- 2016-01-21, kl13-15: Aitchison 9
- 2016-01-28, kl13-15: Aitchison 10
- 2016-02-04, kl13-15: Aitchison 11
- 2016-02-11, kl13-15: Aitchison 12
- 2016-02-18, kl13-15: To be decided
- 2016-02-25, kl13-15: To be decided