Computational Methods (practice) - Lecture 5

Peter Boyle (BNL, Edinburgh)

- Fermion actions
- Sources and hadronic correlation functions
- Meson two point functions
- Meson three point functions
- Final words

Fermion actions

Sources and hadronic correlation functions

Meson two point functions

Meson three point functions

Ward identities

Final words

- Aims
  - convince you that LQCD software can be elegant, portable and fast
  - convince you that algorithms can be easy to implement
  - convince you that code can be elegant, portable and fast
  - convince you to get your hands dirty!
  - draw connections between a sample of the core algorithms & methods of LQCD
  - keep the exposition simple while still covering the depth
- Please provide feedback: what worked and what didn't
- I hope you enjoyed the course