Status of BSc Thesis

Developing Expert Tools for the LHC

18th August 2017

Plan (in short)

- General:
  - Device Backup
  - Environment Variables

- Routines (concrete):
  - Null RF Feedback and RF Modulator
  - Align phases
  - Fine Alignment

Done and Ongoing

- General:
  - Device backup [DONE]

- Routines:
  - Null RF Feedback and RF Modulator [ALMOST DONE]

    Code needs to be improved (modularized and organized).
  - Fine Alignment [DONE]

    Add system stability check.

~5200 lines of code now

To Do

- General:
  - Environment Variable

    Link all routines (current ones as well as future ones).
- Routines:
  - Phase alignment

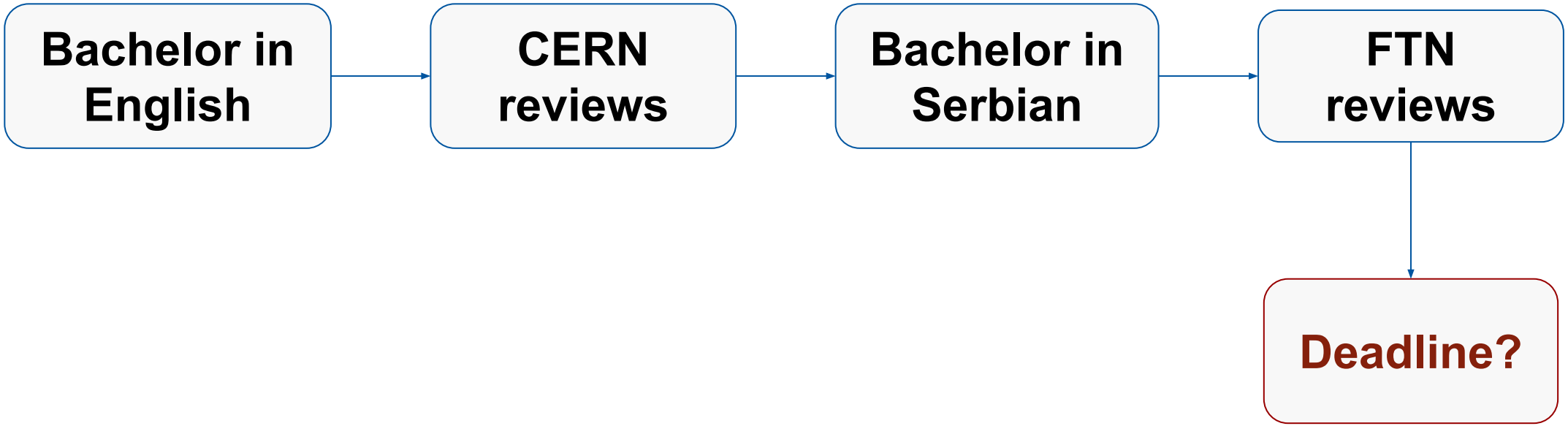
    Explore and Implement all steps for phase alignment.

Final step: unite everything

Testing

- Code Functionality Testing:
  - PyTests/Unittests
  - Comparison to Matlab output (where possible)
  - Testing on simulation cavity 5B0
  - Maybe: testing on the operational system (Fine alignment)

Bachelor work flow



* BSc EN WIP: https://docs.google.com/document/d/1--0nqFilalXrTfc84WTVoMhQRxaFgoD93DIvqMWxofY/edit#