

Dear colleagues,

In Turin it was decided that we collect a number of questions leading to a decision on the barrel Time-of-Flight detector of PANDA. The aim is to work on these in questions in a task force to find as many answers as possible until the next Collaboration Meeting in September.

In this forum we want to discuss until July 8th what these questions should be. As a starting point I put here the topics raised already at the Technical Board in March:

Detector Requirements

- Minimum time resolution, path length, detector resolution
- Required separation power
- Evaluation of relative timing

Implications on PANDA

- Interaction with EMC
- Minimum material budget, realistic material budget with r/o cables etc

Physics Impact

- Momentum window
- Rejection levels
- Improved global PID
- Channels requiring ToF

Criteria for ToF decision

- Physics case
- Control on conversions
- Budget/groups

Stan Belostotski agreed to coordinate the effort with my help.
We will compile the questions collected here to give them to the various groups to work on them.

Best regards,

Lars
