



PBC Exploratory Study for AWAKE Applications

24 May 2018

Agenda

PEPIC and AWAKEforNA64

1 - Introduction, Timeline, Preparation for ESPP document

Edda Gschwendtner

2 - Electron beam from plasma parameter update

Alexey Petrenko

5 - PEPIC beam line design

Christoph Hessler

7 - Civil engineering for PEPIC

John Andrew Osborne et al.

9 - PEPIC with LHC protons

Matthew Wing

6 - VHEeP update

Fearghus Keeble

3 - AWAKE for NA64

Anthony Hartin

8 - Probing muon anomaly, gauge boson and dark matter in dark photon experiments

Sergei Gninenko

4 - AWAKE-NA64 and PEPIC luminosity

James Anthony

Timeline for European Strategy Preparation

18th December 2018: ESPP document ready. → 10 page executive summary from PBC including all sub-WGs (BDF, EDM, etc...) → need supporting documents for sub-WGs.

- Yellow Report for BDF 300 pages CDS
 - 100 pages-ish for Conventional beams CERN Report.
 - Propose we have ~30 pages for AWAKE++
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- Summer 2018 (**mid September 2018**): first version document on AWAKE++ ready.
 - November 2018: final supporting document on AWAKE++ ready.
- I will prepare an outline of the document and send it around by mid June 2018