

Positron Working Group

- Positron WG formed under Shin Michizono (LCC sub-director)
 - Another WG formed for CFS related to staging, lead by H.Hayano (250GeV first stage)
- Charges (from Shin)
 - Evaluate undulator? Conventional? At 250GeV CM
 - Evaluate technical difficulty, cost (based on TDR), commissioning
 - Submit interim report by June 2017 (including essential R&D in 2018-19)
 - Submit final report by 2017 end (including the proposal of positron scheme)
Note: deadline changed since the first version. Now, final report by June 2017.
- Members
 - Germany
Andriy Ushakov, Gudrid Moortgat, Sabine Riemann, Peter Sievers, Benno List
 - Japan
Tohru Takahashi , Tsunehiko Omori, Masao Kuriki
Kaoru Yokoya (chair), Toshiyuki Okugi, Akira Yamamoto
 - US
Wei Gai
- Will meet on phone every other week
 - No meeting yet

What to do? (My opinion)

- Make a plan of R&D for FY2017-2019
 - Main target: Nomura triangle issues
 - Include cost estimation for the R&D
 - Deadline: ~June this year
 - Budget request for JFY2018 by summer this year
- Consistent design
 - Including
 - Undulator: target, shielding of target region, target replacement scenario, photon dump
 - e-driven: target, full simulation including transient loading, cavity cooling, target replacement, etc.
 - Must be sufficient for the central region group to discuss about the electron-side BDS tunnel
 - No clear deadline but hopefully by summer

Discussion within KEK

- Michizono, Yamamoto, KY, Omori, Kuriki (later Urakawa, Takahashi)
- KEK budget situation
 - Minimum amount in JFY2017 (starting Apr.2017)
 - Significant budget might come in JFY2018-19
 - Must request summer this year
 - It is not reasonable in this stage to have 2 parallel schemes
- KEK should be active for the baseline
- Should finish e-driven study within JFY2017
 - Target study needs ~100k\$ (1\$=100yen)
 - Simulation study is enough if we restrict to 1312 bunches
- Must request budget of JFY2018-19 for undulator scheme. ~500k\$???