

Positron WG (Jun.13.2017, TCMB)

- Last meeting on Jun.1
- Discussion
 - Undulator radiation on the masks and inner surface of undulator
 - Finalized the status report for the meeting with Lyn (Jun.6)
 - conclusion page attached
- AWLC agenda
 - Latest version attached

Conclusions

- Neither scheme is not ready now.
- e-Driven scheme seems to be closer to reality
- But obviously undulator scheme is better if feasible (polarization)
- So, we cannot down-select now
 - When can we decide? In 2019 after 2-3 year R&D?
- Tentative decision in April was (in view of the limited money and manpower)
 - Continue the on-going works for e-driven in JFY2017
 - Concentrate more on undulator in JFY2018-19
- Main R&D issue for the undulator scheme is the mechanical performance of the target wheel.
- Flux Concentrator for undulator seems very difficult due to the time dependence of the field. A possibility when FC fails is the QWT. TDR says the positron yield with QWT is $\sim 1/1.6$ times FC (this number must be confirmed). Are we satisfied with a lower luminosity? (This is a question for the future.)

