MVTX & HF-Jet Workfest @MIT, v2

4/30-5/1, 2018

**4/30 (Monday)**

8:50-9:00 Goals of the workfest – Gunther/Dave

9:00 – 9:30 30’ Report from sPHENIX workshop in China – Dave/Gunther

* Optimize the possible contribution from Chinese consortium, best use of resources, manpower and facilities

9:30 – 10:30 60’ MVTX project status – Maria/Grazyna/Bob/Ming

*

10:30 -11:00 coffee break

11:00-11:30 30’ Physics impact of MVTX & new Development – Xin/Jin

* sPHENIX and possible EIC physics impact etc.
* MVTX as EIC R&D and prototype etc
* Later forward MAPS for EIC …
*

11:30-12:00 30’ Project schedule and funding profile DaveL./Maria/Ming

* Smoothing FY20-21 fund ..

12:00-1:00 60’ sPHENIX system integration: MVTX+INTT+TPC - Mickey/Walt/Rachid/Eric/Martin?/Jin/Ming et al

* Mechanical/Service/Cooling system integration
* Electrical/Power/Ground/DAQ --- Eric/Martin?

1:00-2:00 Lunch

2:00 – 2:30 30’ Near term MVTX R&D - Walt/Alex/Sho/Ming

* FPC extension, SamTec cables
* Mechanical integration & services

2:30-3:00 30’ Near term INTT R&D - Rachid/Itaru

* Sensor & detector design
* Extension cables
* Services & integration

3:00-3:30 30’ Near term simulations – Jin/Haiwang/Darren

- Detector optimization and simulation

- R&D for EIC physics & simulation?

3:30-4:00 30’ coffee break

3:30 – 5:00 90’ Cost reduction, institutional in-kind contributions etc. – all

* Carbon structures design and fabrication – MIT, LBNL. LANL et al
* Production test & QA, stave and electronics – CCNU et al
* Detector assembly & test, US and CERN -
* Ancillary system, safety monitoring and controls – GSU et al
* Offline and simulations – all

**6:00 – 8:00 group dinner @Gunther’s**

**5/1 (Tuesday)**

9:00-10:00 60’ Follow up on project schedule and funding profile discussion –DaveL./Maria and all

10:00-10:30 30’ Follow up on MVTX/INTT/TPC integration path - Mickey/Maria/Bob et al

10:30 – 11:00 30’ Plan for the mini sPHENIX integration review – Maria and all

* RU/FELIX/DAQ
* Mechanical/Services/Cooling/Power/Grounding etc.

11:00-11:30 coffee break

11:30-12:00 30’ Simulation and tracking development - Jin/Haiwang/Darren

12:00-1:00 Lunch

1:00-5:00 Working session - all

draft roadmap for MVTX realization,

simulation discussions and plan,

update project cost & schedule etc