Sources Subgroup Meeting Oct.12.2020

(This is not a faithful minutes. Just according to my memory)

Participants: M. Kuriki, H. Hayano, G. Moortgat-Pick, J. Grames, K. Yokoya
S. Michizono

- Joe gave a talk about the PES (Polarized Electron Source) technology. This time on the photocathode (201012_Grames.pptx).
  - Latest technology
    - Strain-compensated SLSP (Strain Layer Superlattice)
    - Diffracted Bragg Reflector SLSP
  - Reached high Q.E. (2-6%) and high polarization (84-90%)
  - No commercial vendors yet
  - Many studies on-going/planned for various projects
    - New 2-year projects in US funded
- Discussion
  - Different parameters for various projects. Is the charge $N=3x10^{10}$ for ILC possible?
    → N for JLab is low, but no fundamental limit on N
  - Readiness of photocathode.
    - Is the present technology sufficient for ILC?
    - ILC would not need a dedicated study. Join on-going R&D plans, e.g., EIC (Electron-Ion Collider, BNL).
  - Vendors
    - ILC can produce cathode by itself? No mass-production
- Parallel Session in AWLC, organized by Masao (AWLC2020.pptx)
  - 4 talks followed by discussions scheduled
    - Tasks IDT and post IDT (pre-ILC lab.), K. Yokoya
    - Undulator e+ source Summary, G. Mootgat-pick
    - E-Driven e+ source Summary, T. Omori
    - Electron source Summary, J. Grames (will be given by M. Kuriki)
  - And discussions on WBS
- Meeting schedule
  - AWLC next week
  - WG2 parent meeting scheduled during AWLC
  - Our meeting on Monday after next

- The following is the corrected version (corrected on Oct.19)
- Switch from DST to winter time:　Oct.25 (Sun) in EU, Nov.1 (Sun) in US
- Then, the meeting time will be
  - Oct.26　22:00 JST,　14:00 EU,　9:00 EDT　(DST only in US)
  - Nov.9　23:00 JST,　15:00 EU,　9:00 EDT　(No DST)