



International Scoping Study Accelerator Working Group: Planning Meeting

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ISS Planning Meeting-RAL
April 21, 2006



Attendees



- **Machine Council**

- R. Fernow, R. Garoby, Y. Mori, R. Palmer, C. Prior, M. Zisman

- **Task Coordinators**

- Proton Driver: R. Garoby, H. Kirk, Y. Mori, C. Prior

- Target/Capture: J. Lettry, K. McDonald

- Front End: R. Fernow, K. Yoshimura

- Acceleration: S. Berg, Y. Mori, C. Prior

- Decay Ring: C. Johnstone, G. Rees

- **All other interested accelerator group members**



Today's Agenda (1)



- Discussion of status of each Task group
 - progress, problems, goals
 - Proton Driver
 - Target/Capture
 - Front End
 - Acceleration
 - Decay Ring
- Discussion of specific plans for this workshop
 - sessions organized to promote discussion
 - and hopefully to reach consensus on aspects of the baseline configuration
 - more discussion, fewer talks



Today's Agenda (2)



- Discussion of other issues
 - when and where to hold next Accelerator Group Workshop
- Adjourn not later than 18:00...hopefully earlier

Proposed Workshop Topics (1)

- **Session 1 (Saturday 4/22, 09:00-13:00)**
 - **Bunch Structure [Conveners: Berg, Rees]**
 - summarize issues for Driver, Target, Front End, Acceleration, Decay Ring
 - **Goal: agree on bunch structure (assume simultaneous need for μ^+ and μ^-)**
- **Session 2 (Saturday 4/22, 14:00-18:00)**
 - **Proton Driver/Target [Conveners: Bennett, Kirk]**
 - **Proton Driver**
 - compare alternatives and trade-offs
 - **Goal: agree on optimal driver configuration; assess compromises from non-optimal choices**
 - **Target**
 - compare solid vs. liquid target and solenoid vs. horn scenarios
 - **Goal: decide on baseline target configuration**

Proposed Workshop Topics (2)

- **Session 3 (Monday 4/24, 09:00-13:00)**
 - **Decay Ring [Conveners: Johnstone, Rees]**
 - compare alternatives and trade-offs, in context of desired bunch structure
 - **Goal: decide on racetrack vs. triangle, no. of rings needed, RF requirements**
- **Session 4 (Monday 4/24, 14:00-18:00)**
 - **Cooling [Conveners: Fernow, Mori, Palmer]**
 - compare cooling and non-cooling options, compare specific cooling implementations for optimal configuration
 - **Goal: decide on need for cooling; if yes, pick baseline configuration**

- **Session 5 (Tuesday 4/25, 14:00-15:30)**
 - **Proton Driver/Target [Conveners: Bennett, Kirk]**
 - **Target**
 - compare solid vs. liquid target and solenoid vs. horn scenarios
 - **Goal: decide on baseline target configuration**
 - **Proton Driver**
 - compare alternatives and trade-offs
 - **Goal: agree on optimal driver configuration; assess compromises from non-optimal choices**

- **Session 6 (Wednesday 4/26, 11:00-13:00)**
 - **Acceleration [Conveners: Berg, Méot]**
 - compare acceleration schemes and assess realistic upper limit to acceptance
 - **Goal: decide on baseline configuration**



Joint Sessions



- **Plenary Parallel (Tuesday 4/25, 16:00-18:00)**
 - **Conveners: Blondel, Nagashima, Zisman**
 - **Emittance measurement issues (Johnstone)**
 - **Siting considerations (Prior)**

- **Plenary Parallel (Wednesday 4/26, 09:00-10:30)**
 - **Conveners: Blondel, Nagashima, Zisman**
 - **NF-SB Proton Driver and Target comparison (Kirk)**
 - **Baseline bunch structure, repetition rate, decay ring issues (Rees)**

Other Sessions

- **Session 7 Proton Driver (Wednesday 4/26, 16:00-18:00)**
 - **Conveners: Bennett, Kirk**
 - Proton Driver (**Garoby**)
 - FETS (**Pozimski**)
- **Accelerator Summary (Wednesday 4/26, 14:00-15:30)**
 - **Convener: Zisman**
 - Discussion of decisions (**Zisman**)
 - Preview of Accelerator Summary talk (**Palmer**)
- **Accelerator Planning (Thursday 4/27, 09:00-10:30)**
 - **Convener: Zisman**
 - Planning for NuFact06 meeting (**all**)
 - Life after ISS (**all**)



Next Meeting



- At KEK, we proposed a meeting at BNL
 - right after the FFLAG workshop in Port Jefferson
 - dates were May 20-22 (Saturday to Monday)
 - is the proposed workshop too close to this meeting?
 - weeks of June 20 or July 25 look possible for me
 - the first of these is inconveniently close to EPAC

Concluding Comments

- We need to begin the process of wrapping up the ISS
 - final meeting at NuFact06 is approaching
- We need to reach consensus on defining a baseline configuration
- We need to plan for the next phase of study
 - most likely scenario is that IDS will not start for another year