



# International Scoping Study Accelerator Working Group: Princeton Workshop

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ISS Accelerator Group Workshop-Princeton  
July 26, 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

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

- Decay Ring: C. Johnstone, G. Rees

- **A. Kurup, N. Simos, D. Neuffer, J. Gallardo, M. Dracos, A. Garren, S. Kahn, T. Uesugi, M. Apollonio**



# Questions to Discuss (1)



- **Proton Driver**

- one or more worked-out scenarios compatible with our agreed upon parameters
  - at least one of these should be tracked

- **Target**

- develop a worked-out solid-target scenario, including beam dump

- **Superbeam**

- a list of required parameters and acceptable scenarios including target and beam dump

- **Front End**

- supply particle files to downstream systems for end-to-end simulations

# Questions to Discuss (2)

- **Acceleration**

- design for an intermediate energy RLA
- review of original Study II RLA design
- resolve the non-scaling FFAG tracking issue
- examine scaling FFAG design for high energy acceleration

- **Decay rings**

- estimate relative costs of the two configurations, if possible
  - this should start from a comparison of magnet counts and parameters, circumference, depth of ring, RF requirements, etc.

- **List of R&D topics from task leaders**



# Today's Agenda (1)



- Discussion of status of each Task group
  - progress, problems, goals
    - Proton Driver
    - Target/Capture
    - Front End
    - Acceleration
    - Decay Ring
- Target + Superbeams (10:00 - 13:00) [McDonald/Kirk]
  - MERIT update
  - solid-target scenarios
  - Superbeam scenarios
- Acceleration (14:00 - 18:00) [Berg/Bogacz]
  - RLA design
  - FFAG tracking



# Thursday's Agenda



- Front-end + Decay Ring (09:00 - 13:00)  
[Fernow/Johnstone/Rees]
  - front-end update
  - decay ring update
- Proton Driver scenarios (14:00 - 18:00)  
[Prior/Kirk]
  - discuss scenarios meeting current specifications



# Friday's Agenda



- R&D plans and conclusions (09:00 - 13:00)  
[Zisman+ task leaders]
- Adjourn



# Next Meeting



- We meet at UC-Irvine on August 21-22, 2006  
— right before NuFact06
- Our summary talk is the first day of NuFact (8/24)



# 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