Workshop Introduction

J. Scott Berg

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Information

- One computer available (Windows/Linux), let me know if you need more
- Wired internet access
- LCD projector and transparency projector
- Coffee breaks provided by Brookhaven Science Associates
  - Coffee at 8:30, breaks at 10:30, 3:30
- Restraunt guides in your packets
  - At the end of the day, we will organize trips to restraunts

Organization

- Starting at 9AM, will have some pre-prepared presentations
- At around 4PM, we will start with “progress reports” of what people have accomplished that day
- Remainder of the day: work
  - Brief discussion after AM presentations to organize people
- This categorization should be considered highly flexible
- May or may not do a closeout (discuss)
- Today: after talks, short personal introductions

Organization of Pre-Prepared Presentations

- Feel free to volunteer a talk!
- This schedule may change
- Monday: facilities
  - Alessandro Ruggiero: A 1.2-GeV Proton FFAG as a Replacement of the AGS Booster
  - Yoshiharu Mori: Status of FFAG developement at KEK
- Tuesday: Transverse lattices
  - Michael Craddock: Dependence of path-length spread on FFAG lattice type
  - J. Scott Berg: Comparison of lattice types

Organization of Pre-Prepared Presentations (cont.)

- Wednesday: Longitudinal dynamics
  - Shane Koscielniak: FFAG's wonderful world of nonlinear dynamics
  - David Neuffer: Longitudinal emittance from buncher/phase rotator (unconfirmed)
  - Eberhard Keil: (unconfirmed)
- Thursday: Everything else. . .
  - Steve Kahn: Field decay and coil space in magnets
  - J. Scott Berg: Electron model of a non-scaling FFAG

Topics of Interest

- Optimial lattice type (may be situation-dependent)
  - Scaling vs. non-scaling
  - Lattice structure (FODO, Triplet, etc.)
- Design of a high-intensity FFAG-based proton source
  - Define performance criteria for such a lattice
- Look at lattice parameters for Japanese and US neutrino factory beams
  - Scaling FFAG for US input beam
  - Non-scaling FFAG for Japanese input beam
- Examine low-energy lattice designs for muon machines
- Design of an electron model for a non-scaling FFAG