



The University of Oklahoma NLC Forward Tracking Plans

Mike Strauss
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Scope of Oklahoma Proposal

- Develop and test forward tracking algorithms
- Improve and test track simulation in the forward direction
- Use simulation to optimize the design of forward tracking
- Incorporate developing detector technologies into simulations
- Investigate effect of beam related background on pattern recognition and tracking
- Study track resolution and separation



Personnel

- Mike Strauss, Associate Professor
- Pat Skubic, Professor
 - May be focused on NLC tracking hardware
- Post-doc, TBD
- Future Interest
 - Phil Gutierrez, Professor
 - Brad Abbott, Assistant Professor



Short Term Plans

- Identify/hire post-doc
- Install current NLC simulation and tools on local network
- Assure that the simulation is realistic
- Install current DØ forward tracking code.
- Integrate some variation of DØ code with NLC simulation
- Analyze quality of simulation and algorithm
- Coordinate simulation with La Tech group