

Simulations Plans

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Plans

1. Neutrino factory design
main task = finish accelerator scenario
ISS? - redesign due to costing optimization
2. Muon collider design
main task = work on details of Bob's collider front-end scenario
coordinate with work by Muons Inc and FNAL collider task force
3. Replace Collaboration simulation postdoc
main responsibility = collider scenario
Riverside (?)
4. University R&D
 - a) IIT
model cavity breakdown
MICE beamline simulations
 - b) UCLA
table top ring cooler (optimize parameters; turn into channel?)
lithium lens ring (details of emittance exchange; turn into front end design)
 - c) Mississippi
6D cooling with inverse cyclotron (transition to magnetic bottle in center)
100 -> 750 GeV fast ramping μ synchrotron in Tevatron tunnel (design details)

Budget

postdoc	~\$95K
JLAB	10
IIT	80
UCLA	~45
Mississippi	18
	\$248K

If R&D budget ramps up => add 2nd simulation postdoc (~\$95K)