Last week collaboration meeting conclusions:

- Updates on the e-ring lattice work from MIT-Bates and discussions about the required parameters for this lattice.
- MIT-Bates group (D.Wang) evaluates the application of flat beams as alternative of the round beam design line.
- Ideally the lattice should provide the emittances in the range:
  - 35-95 nm for 5Gev
  - 15-50 nm for 10GeV

  The highest number is going for round beams, while lower range numbers allows for flatter beam operations.
- The lattice integration: the first release has to happen before Aug.10, the effort shoud be to do it faster than that. Lattice integration meeting at BNL at the end of July.
- ZDR: agreed to fill on the 2 week scale the existing sections with some contents, at least in the form of bullets, tables and plots.
- ZDR password protection.

Parameters for a flat beam scheme

To reach same luminosity as round beam

(10 GeV e- vs. 250GeV p beams as an example for discussions)

	eRHIC(flat)	HERA upgrade	eRHIC(round)
Proton:			
Beta_x at IP	2.0 m	2.45 m	0.5 m(0.3m?)
Beta_y at IP	0.125 m	0.18 m	0.5 m
Emittance(geo.)	9 nm	5.1 nm	9 nm
Tune shift	0.0055/0.0038	0.003/0.001	0.005/0.005
Electron:			
Beta_x at IP	0.17 m	0.63 m	0.1 m
Beta_y at IP	0.06 m	0.26 m	0.1 m
Hori./ver. Emittance	100/18 nm	20/3.4 nm	43/43 nm
Tune shift	0.041/0.061	0.034/0.052	0.05/0.05

Proton bunch population is assumed to be 2E11. I_e-=450mA

Tune shifts exceed limits 0.05(e)/0.005(p) a little bit.