* 1. Wide aperture chamber to accommodates bypass magnets and Q49 with transitions consistent with CHESS U ops
  2. Optical amplifier chamber & optics

Activity Start date

1. Lattice design 9/8 + 20 days
2. Bypass optics design - 9/8 + 20 days
3. Develop code and simulate cooling 9/8 + 60 days
4. Design optical detector to measure interference 9/8 + 40 days
5. Test of low energy operation of CESR [ms] 12/17 [3 days]
6. CESR Mods for low E operation 9/8 + 40 days
   1. Dipole
   2. Quadrupoles/steerings/sextupoles
   3. RF
   4. Pulsed magnets
   5. Linac/synchrotron stability
   6. Control system (winj)
7. Bypass line magnet design - 1/18 + 40 days
8. Pickup/kicker undulator design 1/18 + 40 days
9. Bypass line vacuum component design 4/18 +
10. Second test of low energy operation [ms] 4/18 [3 days]
11. Bypass line magnets engineering design - 6/18 + 40 days
12. Undulator engineering design 6/18 + 40 days
13. Undulator fabrication 10/18 + 60 days
14. Bypass line magnet fabrication 10/18 + 60 days
15. Bypass line vacuum fab 11/18 +
16. Fabricate support stands for  bypass 1/19 + 20 days
17. Design optical amplifier 1/19 + 40 days
18. Test low energy optics in CHESS-U configuration 4/19 [3 days]
19. Installation bypass(magnets,vacuum chambers, L3) 7/19 [15 days]
20. Commission bypass and demonstrate interference[ms] 12/19 ( 4 days)
21. Install optical amplifier and laser and detector 1/20 [5 days]
22. Demonstrate cooling (machine studies) 4/20 [5 days]

OSC experiment Schedule