**Activity** **Start date**

OSC experiment Schedule

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

js = Jim Shanks

mpe = Mike Ehrlichman

sw=Suntao Wang

wfb = Will Bergan

tbd = post doc to be hired

dcs = David Sagan

jm = Jared Maxson

ib = Ivan Bazarov

mjf=Mike Forster

mgb= Mike Billing

jjb = John Barley

gc = Gerry Codner

rem = Robert Meller

aam = Alexander Mikhailichenko

jac = Jim Crittenden

yl = Yulin Li

machine studies = sw,js,mpe,wgb,mjf, rem, gc