**September 6, 2017**

**Optical Stochastic Cooling WBS**

1. Administration (travel)
2. Modeling and simulation
   * electromagnetic radiation and undulators
   * lattice design
   * beam dynamics
   * bypass line
   * software development
3. Low energy operation of synchrotron and CESR and related machine studies
   * Dipole
   * quads
   * RF
   * injection
   * synchrotron
   * instrumentation
4. New Instrumentation (capital)
   * optical amplifier conceptual design
   * diagnostic instrumentation
5. Engineering design (capital)
   * Bypass magnets,
   * Bypass vacuum system
   * Optical system, amplifier, laser
6. Fabrication and installation
   * Bypass line magnets and vacuum system
   * Bypass line magnet stands, infrastructure
   * optical amplifier and related vacuum equipment