Alfred U			
2.2.3.D	Studies of electron-cloud build-up and instabilities with simulation and experiment	Proposed	17-May-07
2.2.4.E	Studies of fast ion instability (modelling and experimental)	Active	17-May-07
ANL			
2.1.1.C	Damping ring lattice design and optimization	Active	17-May-07
2.1.1.G	Alternative ring designs	Proposed	11-Aug-06
2.1.3.B	Orbit and coupling correction and tuning studies	Proposed	17-May-07
2.2.1.F	Single bunch impedance	Proposed	21-Aug-06
2.2.2.E	Multi-bunch instability with Monte Carlo HOM modeling	Proposed	21-Aug-06
2.2.3.S	Model electron cloud instability	Proposed	18-May-07
2.2.5.M	CSR modeling	Proposed	21-Aug-06
2.3.1.A	Integrated modeling of damping ring beam dynamics	Proposed	11-Aug-06
3.7.2.B	Single-pass, high-resolution RF BPM	Proposed	11-Aug-06
3.7.3.A	Development of time-resolved photon diagnostics	Proposed	12-May-07
ASTeC			
2.1.4.A	Low-emittance tuning techniques and requirements	Active	17-May-07
2.2.3.N	Benchmarking of electron-cloud build-up simulations	Active	20-Sep-06
2.2.3.0	Improvement of electron-cloud simulation codes	Active	20-Sep-06
2.2.3.P	Predict electron-cloud effect in the damping rings	Active	20-Sep-06
2.2.3.Q	Experimental determination of surface parameters for electron-cloud build-up	Active	20-Sep-06
3.1.1.B	Damping rings vacuum studies	Active	17-May-07
3.1.1.E	Vacuum design of damping rings	Active	20-Sep-06
3.1.1.F	Arcs vacuum system technical design	Active	17-May-07
CERN			
2.2.3.N	Benchmarking of electron-cloud build-up simulations	Active	20-Sep-06
2.2.3.0	Improvement of electron-cloud simulation codes	Active	20-Sep-06
2.2.3.P	Predict electron-cloud effect in the damping rings	Active	20-Sep-06
2.2.3.Q	Experimental determination of surface parameters for electron-cloud build-up	Active	20-Sep-06
2.2.3.R	Develop a PIC code for computing electron cloud and ion effects	Active	20-Sep-06
2.2.4.I	Characterize ion effects in the damping rings	Completed	20-Sep-06
2.2.5.L	Theoretical studies of intrabeam scattering	Active	11-Aug-06
3.1.1.E	Vacuum design of damping rings	Active	20-Sep-06
3.4.6.B	Development of superconducting wiggler	Active	11-Aug-06
3.6.1.A	RF cryogenic system specification	Active	17-May-07
3.7.3.C	Instrumentation development	Proposed	11-Aug-06

Cornell

2.1.1.H	Modelling of alternative injection/extraction techniques - RF deflection schemes and other techniques	Proposed	17-May-07
2.1.4.B	Develop low-emittance tuning strategies with validation in CesrTA	Active	17-May-07
2.1.4.C	Specify the alignment tolerances and stabilization requirements for the damping rings	Active	17-May-07
2.2.3.D	Studies of electron-cloud build-up and instabilities with simulation and experiment	Proposed	17-May-07
2.2.4.E	Studies of fast ion instability (modelling and experimental)	Active	17-May-07
2.2.5.G	Estimate the impact from CSR	Active	12-May-07
2.2.5.H	Simulation of the Touschek lifetime and intrabeam scattering effects with measurements in CesrTA	Active	17-May-07
3.4.6.A	Develop physics design for damping wigglers	Inactive	12-May-07
3.4.6.C	Develop engineering design for ILC damping wigglers based on CESR-c superconducting wiggler design	Proposed	17-May-07
3.5.1.C	Development of fast injection/extraction kickers	Active	17-May-07
3.6.2.A	Development of 650 MHz superconducting RF cavity and cryomodule	Proposed	11-Aug-06
3.7.3.B	Develop instrumentation for monitoring emittance damping (including testing and operation in CESR-c and CesrTA)	Active	17-May-07
3.7.5.A	Develop methodology for fast dispersion measurements (including testing and operation in CESR-c/CesrTA)	Inactive	12-May-07
4.2.1.D	Development of CesrTA	Proposed	11-Aug-06
4.2.1.E	ATF instrumentation and hardware development	Active	17-May-07
Daresbury			
3.1.1.F	Arcs vacuum system technical design	Active	17-May-07
DESY			
2.1.2.D	Wiggler studies in PETRA-III	Proposed	11-Aug-06
2.2.3.C	Model electron-cloud build-up and instabilities	Proposed	12-May-07
2.2.3.N	Benchmarking of electron-cloud build-up simulations	Active	20-Sep-06
2.2.3.O	Improvement of electron-cloud simulation codes	Active	20-Sep-06
2.2.3.P	Predict electron-cloud effect in the damping rings	Active	20-Sep-06
2.2.3.Q	Experimental determination of surface parameters for electron-cloud build-up	Active	20-Sep-06
2.2.4.D	Studies of fast ion instability	Active	11-Aug-06
3.1.1.E	Vacuum design of damping rings	Active	20-Sep-06
4.2.1.C	Development of HERA-DR	Proposed	11-Aug-06

FNAL

2.2.3.T	Model electron cloud dynamics including modelling for CesrTA	Proposed	18-May-07
2.2.5.B	Self-consistent modeling of space-charge effects	Proposed	11-Aug-06
2.2.5.C	Self-consistent modeling of CSR effects	Proposed	12-Apr-06
2.3.1.A	Integrated modeling of damping ring beam dynamics	Proposed	11-Aug-06
3.3.8.B	Damping ring power system design	Proposed	18-May-07
3.5.1.A	Development of high-availability injection/extraction kicker (SLAC/LLNL)	Active	17-May-07
3.5.1.B	Development of high-availability injection/extraction kicker (SLAC/KEK)	Active	18-Aug-06
3.7.2.A	KEK-ATF BPM electronics	Active	17-May-07
4.1.1.A	ATF beam dynamics and instrumentation studies	Active	11-Aug-06
IHEP			
2.1.1.F	Damping rings optics design	Inactive	12-May-07
2.2.1.C	Characterize single-bunch collective effects	Proposed	11-Aug-06
3.1.1.D	Vacuum chamber studies	Proposed	11-Aug-06
3.3.2.A	Damping rings magnet design	Proposed	11-Aug-06
3.7.2.C	Damping rings instrumentation	Proposed	11-Aug-06
INFN-LNF	r		
2.1.2.C	Study of beam dynamics with wigglers	Proposed	10-Aug-06
2.2.3.F	Electron cloud lab measurements and PEP-II studies	Active	17-May-07
2.2.3.G	Studies of clearing electrodes for suppressing electron cloud build-up	Proposed	17-May-07
2.2.3.H	Electron cloud studies in DAFNE	Proposed	10-Aug-06
2.2.3.N	Benchmarking of electron-cloud build-up simulations	Active	20-Sep-06
2.2.3.0	Improvement of electron-cloud simulation codes	Active	20-Sep-06
2.2.3.P	Predict electron-cloud effect in the damping rings	Active	20-Sep-06
2.2.3.Q	Experimental determination of surface parameters for electron-cloud build-up	Active	20-Sep-06
3.1.1.E	Vacuum design of damping rings	Active	20-Sep-06
3.5.1.E	Development of stripline electrodes for fast kickers	Proposed	10-Aug-06
3.5.1.F	Laboratory test of FID fast high-power pulser	Active	10-Aug-06
3.6.1.A	RF cryogenic system specification	Active	17-May-07
3.8.1.D	Development of fast feedback systems	Proposed	10-Aug-06

KEK

2.1.2.B	Dynamic aperture studies	Proposed	17-May-07
2.2.3.E	Model electron cloud build-up and instabilities	Active	28-Apr-06
2.2.3.L	Experiments on suppression of electron cloud effect	Proposed	19-Sep-06
2.2.3.M	Measurement of electron cloud instabilities	Proposed	19-Sep-06
2.2.4.C	Studies of fast ion instability	Active	28-Apr-06
2.2.4.H	Measure fast ion instability in KEK-ATF	Active	12-May-07
2.2.5.K	CSR studies at KEK-ATF	Active	11-Aug-06
3.5.1.B	Development of high-availability injection/extraction kicker (SLAC/KEK)	Active	18-Aug-06
3.6.1.B	RF system test in KEKB	Proposed	17-May-07
3.7.2.A	KEK-ATF BPM electronics	Active	17-May-07
3.8.1.E	Bunch-by-bunch feedback systems and related diagnostics systems	Proposed	19-Sep-06
4.1.1.A	ATF beam dynamics and instrumentation studies	Active	11-Aug-06
4.1.1.B	Operation of KEKB LER in a low-emittance mode	Proposed	19-Sep-06
4.1.1.C	Effects of wiggler	Proposed	19-Sep-06
4.2.1.B	Development of fast rise/fall time kicker for ATF/ATF2	Active	11-Aug-06
KNU			
2.1.1.E	Damping rings optics design	Proposed	28-Apr-06
2.2.4.C	Studies of fast ion instability	Active	28-Apr-06
4.1.1.A	ATF beam dynamics and instrumentation studies	Active	11-Aug-06
LANL			
2.2.3.F	Electron cloud lab measurements and PEP-II studies	Active	17-May-07

LBNL			
2.1.1.A	Injection and Extraction Beam Line Design and Characterisation	Active	17-Aug-07
2.1.2.A	Characterize baseline damping rings dynamic aperture	Active	17-Aug-07
2.1.4.D	Low emittance tuning	Proposed	17-Aug-07
2.2.2.C	Characterize the effects of transients during the injection/extraction process on the damped bunches	Active	17-Aug-07
2.2.2.F	Multibunch impedance	Active	17-Aug-07
2.2.3.A	Model electron cloud instability	Active	17-Aug-07
2.2.3.G	Studies of clearing electrodes for suppressing electron cloud build-up	Proposed	17-May-07
2.2.3.I	CesrTA wiggler and electron cloud studies	Proposed	17-May-07
2.2.4.A	Experimental studies of fast ion instability at the LBNL-ALS	Active	17-Aug-07
2.2.5.A	Characterize selected single-bunch instabilities	Active	17-Aug-07
2.2.5.J	Study of CSR effects at KEK-ATF	Proposed	17-May-07
3.1.1.A	Damping rings wiggler and straights vacuum system design	Active	17-Aug-07
3.3.3.A	Damping ring magnet design	Proposed	18-May-07
3.6.4.A	Develop low-level RF systems	Proposed	17-May-07
3.7.5.B	Development of betatron tune monitor and coherent signal receiver	Proposed	17-May-07
3.8.1.A	Development of the transverse broadband multibunch feedback systems	Active	17-Aug-07
3.8.1.B	Characterize injection noise	Proposed	10-Aug-06
3.13.1.A	Mechanical systems design and integration	Active	17-Aug-07
4.2.1.A	ATF kicker development	Active	17-Aug-07
Liverpool/C	CI		
2.1.4.A	Low-emittance tuning techniques and requirements	Active	17-May-07
2.2.1.B	Develop single-bunch impedance models and characterize instabilities	Proposed	17-May-07
2.2.2.A	Impedance-driven coupled-bunch instabilities	Active	17-May-07
2.2.3.F	Electron cloud lab measurements and PEP-II studies	Active	17-May-07
2.2.5.D	Characterize injection/extraction transients	Active	17-May-07
2.2.5.I	Estimate impact of intrabeam scattering on extracted (non-equilibrium) emittances	Proposed	11-Aug-06
2.2.5.J	Study of CSR effects at KEK-ATF	Proposed	17-May-07
LLNL			
3.5.1.A	Development of high-availability injection/extraction kicker (SLAC/LLNL)	Active	17-May-07

ILC DR	R&D Activities by Institution	1	7-Aug-07
Mancheste	r/CI		
2.2.1.B	Develop single-bunch impedance models and characterize instabilities	Proposed	17-May-07
Minnesota			
2.2.5.H	Simulation of the Touschek lifetime and intrabeam scattering effects with measurements in CesrTA	Active	17-May-07
RHUL			
2.2.5.K	CSR studies at KEK-ATF	Active	11-Aug-06
Rostock			
2.2.3.C	Model electron-cloud build-up and instabilities	Proposed	12-May-07

SLAC

2.1.2.B	Dynamic aperture studies	Proposed	17-May-07
2.1.3.A	Specify correction systems	Proposed	17-May-07
2.2.1.A	Develop an impedance budget and specify feedback systems	Active	17-May-07
2.2.1.D	Calculate impedance of vacuum chamber components	Proposed	17-May-07
2.2.1.E	Simulate vacuum chamber and beamline components	Proposed	10-Aug-06
2.2.2.D	Fast feedback system specifications	Proposed	17-May-07
2.2.3.B	Model electron-cloud build-up and instabilities	Active	17-May-07
2.2.3.F	Electron cloud lab measurements and PEP-II studies	Active	17-May-07
2.2.3.G	Studies of clearing electrodes for suppressing electron cloud build-up	Proposed	17-May-07
2.2.3.I	CesrTA wiggler and electron cloud studies	Proposed	17-May-07
2.2.3.K	Studies of grooved vacuum chamber surfaces for electron cloud suppression	Active	17-May-07
2.2.4.B	Numerical and analytical studies of two-stream (beam-ion) instabilities	Active	17-May-07
2.2.4.F	Studies of suppression techniques for fast ion instability	Active	17-May-07
2.2.4.G	Experimental studies of fast ion instability	Proposed	12-May-07
2.2.5.E	Characterize classical single- and multi-bunch instabilities	Active	17-May-07
3.1.1.C	Coordinate design of damping ring vacuum system and control the impedance budget	Proposed	17-May-07
3.3.8.A	Damping ring power system design	Proposed	18-May-07
3.5.1.A	Development of high-availability injection/extraction kicker (SLAC/LLNL)	Active	17-May-07
3.5.1.B	Development of high-availability injection/extraction kicker (SLAC/KEK)	Active	18-Aug-06
3.5.1.G	Development of DSRD-based fast high-power pulser	Active	18-Aug-06
3.5.1.H	Development of reduced beam impedance kicker structure	Active	17-May-07
3.6.4.B	Design studies for damping rings low level RF system	Proposed	17-May-07
3.7.2.A	KEK-ATF BPM electronics	Active	17-May-07
3.8.1.C	Fast feedback system development	Proposed	17-May-07
4.1.1.A	ATF beam dynamics and instrumentation studies	Active	11-Aug-06
4.2.1.A	ATF kicker development	Active	17-Aug-07
4.2.1.F	ATF multibunch feedback	Active	25-May-07
UBC			
3.5.1.I	Saturating ferrite pulse-sharpener for damping ring kickers	Proposed	18-May-07
UIUC			
3.5.1.D	Development of fast injection/extraction kickers	Active	17-May-07
YerPhI			
3.2.6.A	Optimize design of permanent magnet wiggler	Active	10-Aug-06