

ILC Damping Rings Researchers' Activities

17-Aug-07

Kazunori Akai, KEK (kazunori.akai@kek.jp)

* 3.6.1.B RF system test in KEKB *Proposed* 17-May-07

David Alesini, INFN-LNF (david.alesini@lnf.infn.it)

* 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

Jim Alexander, Cornell (jima@lns.cornell.edu)

* 3.7.3.B Develop instrumentation for monitoring emittance damping (including testing and operation in CESR-c and CEsrTA) *Active* 17-May-07

James Amundson, FNAL (amundson@fnal.gov)

2.3.1.A Integrated modeling of damping ring beam dynamics *Proposed* 11-Aug-06

Alexander Aryshev, KEK (alar@post.kek.jp)

* 2.2.5.K CSR studies at KEK-ATF *Active* 11-Aug-06

Albert Babayan, YerPhI (babaian@yerphi.am)

* 3.2.6.A Optimize design of permanent magnet wiggler *Active* 10-Aug-06

Karl Bane, SLAC (kbane@slac.stanford.edu)

* 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

2.2.3.G Studies of clearing electrodes for suppressing electron cloud build-up *Proposed* 17-May-07

Walter Barry, LBNL (Walter_Barry@lbl.gov)

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

Marica Biagini, INFN-LNF (Marica.Biagini@lnf.infn.it)

2.1.2.C Study of beam dynamics with wigglers *Proposed* 10-Aug-06

Mike Billing, Cornell (mgb@cesr10.lns.cornell.edu)

* 3.7.5.A Develop methodology for fast dispersion measurements (including testing and operation in CESR-c/CesrTA) *Inactive* 12-May-07

Neil Bliss, Daresbury (n.bliss@dl.ac.uk)

3.1.1.F Arcs vacuum system technical design *Active* 17-May-07

Roberto Boni, INFN-LNF (Roberto.Boni@lnf.infn.it)

* 3.6.1.A RF cryogenic system specification *Active* 17-May-07

ILC Damping Rings Researchers' Activities

17-Aug-07

Michael Borland, ANL (borland@aps.anl.gov)

- *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

Craig Brooksby, LLNL (brooksby1@llnl.gov)

- 3.5.1.A Development of high-availability injection/extraction kicker (SLAC/LLNL) *Active* 17-May-07

Warner Bruns, CERN (Warner.Bruns@cern.ch)

- *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

John Byrd, LBNL (JMBByrd@lbl.gov)

- *2.2.2.F Multibunch impedance *Active* 17-Aug-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.J Study of CSR effects at KEK-ATF *Proposed* 17-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
- *4.2.1.A ATF kicker development *Active* 17-Aug-07

Yunhai Cai, SLAC (yunhai@slac.stanford.edu)

- *2.1.2.B Dynamic aperture studies *Proposed* 17-May-07
- *2.1.3.A Specify correction systems *Proposed* 17-May-07

Maria Carballo, SLAC ()

- 3.7.2.A KEK-ATF BPM electronics *Active* 17-May-07

Giorgio Cavallari, CERN (giorgio.cavallari@cern.ch)

- 3.6.1.A RF cryogenic system specification *Active* 17-May-07

Christine Celata, LBNL (cmcelata@lbl.gov)

- *2.2.3.A Model electron cloud instability *Active* 17-Aug-07

Yong-Chul Chae, ANL (chae@aps.anl.gov)

- *2.2.1.F Single bunch impedance *Proposed* 21-Aug-06
- 2.3.1.A Integrated modeling of damping ring beam dynamics *Proposed* 11-Aug-06

Scott Chapman, Cornell (ssc@lepp.cornell.edu)

- 2.1.4.C Specify the alignment tolerances and stabilization requirements for the damping rings *Active* 17-May-07

ILC Damping Rings Researchers' Activities

17-Aug-07

Roberto Cimino, INFN-LNF (Roberto.Cimino@Inf.infn.it)

* 2.2.3.H	Electron cloud studies in DAFNE	<i>Proposed</i>	10-Aug-06
2.2.3.N	Benchmarking of electron-cloud build-up simulations	<i>Active</i>	20-Sep-06
2.2.3.O	Improvement of electron-cloud simulation codes	<i>Active</i>	20-Sep-06
2.2.3.P	Predict electron-cloud effect in the damping rings	<i>Active</i>	20-Sep-06
2.2.3.Q	Experimental determination of surface parameters for electron-cloud build-up	<i>Active</i>	20-Sep-06
3.1.1.E	Vacuum design of damping rings	<i>Active</i>	20-Sep-06

Alberto Clozza, INFN-LNF (Alberto.Clozza@Inf.infn.it)

2.2.3.H	Electron cloud studies in DAFNE	<i>Proposed</i>	10-Aug-06
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Gerry Codner, Cornell (gcodner@lepp.cornell.edu)

2.2.4.E	Studies of fast ion instability (modelling and experimental)	<i>Active</i>	17-May-07
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Gerard Collet, SLAC (collet@SLAC.Stanford.EDU)

2.2.3.F	Electron cloud lab measurements and PEP-II studies	<i>Active</i>	17-May-07
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Ed Cook, LLNL (cook5@llnl.gov)

3.5.1.A	Development of high-availability injection/extraction kicker (SLAC/LLNL)	<i>Active</i>	17-May-07
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Jim Crittenden, Cornell (critten@lns.cornell.edu)

* 2.2.3.D	Studies of electron-cloud build-up and instabilities with simulation and experiment	<i>Proposed</i>	17-May-07
* 2.2.4.E	Studies of fast ion instability (modelling and experimental)	<i>Active</i>	17-May-07

Stefano de Santis, LBNL (SDeSantis@lbl.gov)

2.2.3.G	Studies of clearing electrodes for suppressing electron cloud build-up	<i>Proposed</i>	17-May-07
2.2.3.I	CesrTA wiggler and electron cloud studies	<i>Proposed</i>	17-May-07
2.2.4.A	Experimental studies of fast ion instability at the LBNL-ALS	<i>Active</i>	17-Aug-07
2.2.5.J	Study of CSR effects at KEK-ATF	<i>Proposed</i>	17-May-07
4.2.1.A	ATF kicker development	<i>Active</i>	17-Aug-07

Winfried Decking, DESY (winfried.decking@desy.de)

* 2.1.2.D	Wiggler studies in PETRA-III	<i>Proposed</i>	11-Aug-06
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Jean-Pierre Delahaye, CERN (Jean-Pierre.Delahaye@cern.ch)

* 2.2.5.L	Theoretical studies of intrabeam scattering	<i>Active</i>	11-Aug-06
* 3.4.6.B	Development of superconducting wiggler	<i>Active</i>	11-Aug-06
* 3.7.3.C	Instrumentation development	<i>Proposed</i>	11-Aug-06

ILC Damping Rings Researchers' Activities

17-Aug-07

John Dobbins, Cornell (jad@lepp.cornell.edu)

3.7.3.B Develop instrumentation for monitoring emittance damping (including testing and operation in CESR-c and CEsrTA) *Active* 17-May-07

Larry Doolittle, LBNL (ldoolitt@recycle.lbl.gov)

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.B Characterize injection noise *Proposed* 10-Aug-06

Alessandro Drago, INFN-LNF (Alessandro.Drago@lnf.infn.it)

*3.8.1.D Development of fast feedback systems *Proposed* 10-Aug-06

Gerry Dugan, Cornell (gfd1@cornell.edu)

3.4.6.A Develop physics design for damping wigglers *Inactive* 12-May-07

Kazumi Egawa, KEK (kazumi.egawa@kek.jp)

*4.1.1.C Effects of wiggler *Proposed* 19-Sep-06

Richard Ehrlich, Cornell (rde4@cornell.edu)

3.4.6.C Develop engineering design for ILC damping wigglers based on CESR-c superconducting wiggler design *Proposed* 17-May-07

Mike Ehrlichman, Minnesota (ehrichman@Physics.umn.edu)

2.2.5.H Simulation of the Touschek lifetime and intrabeam scattering effects with measurements in CEsrTA *Active* 17-May-07

Eckhard Elsen, DESY (eckhard.elsen@desy.de)

2.2.4.D Studies of fast ion instability *Active* 11-Aug-06

Louis Emery, ANL (emery@aps.anl.gov)

*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

*2.2.2.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

*2.3.1.A Integrated modeling of damping ring beam dynamics *Proposed* 11-Aug-06

John Flanagan, KEK (john.flanagan@kek.jp)

*2.2.3.M Measurement of electron cloud instabilities *Proposed* 19-Sep-06

John Fox, SLAC (jdfox@SLAC.Stanford.EDU)

*2.2.2.D Fast feedback system specifications *Proposed* 17-May-07

*3.6.4.B Design studies for damping rings low level RF system *Proposed* 17-May-07

*3.8.1.C Fast feedback system development *Proposed* 17-May-07

ILC Damping Rings Researchers' Activities

17-Aug-07

Joe Frisch, SLAC (frisch@slac.stanford.edu)

3.7.2.A KEK-ATF BPM electronics *Active* 17-May-07

Hitoshi Fukuma, KEK (hitoshi.fukuma@kek.jp)

2.2.3.L Experiments on suppression of electron cloud effect *Proposed* 19-Sep-06

Jie Gao, IHEP (gaoj@ihep.ac.cn)

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

George Gollin, UIUC (g-gollin@mail.physics.uiuc.edu)

*3.5.1.D Development of fast injection/extraction kickers *Active* 17-May-07

Alan Grant, Daresbury (a.f.grant@dl.ac.uk)

3.1.1.F Arcs vacuum system technical design *Active* 17-May-07

Susanna Guiducci, INFN-LNF (Susanna.Guiducci@lnf.infn.it)

*2.1.2.C Study of beam dynamics with wigglers *Proposed* 10-Aug-06

Don Hartill, Cornell (dlh13@cornell.edu)

2.1.4.C Specify the alignment tolerances and stabilization requirements for the damping rings *Active* 17-May-07

Hitoshi Hayano, KEK (hitoshi.hayano@kek.jp)

4.2.1.B Development of fast rise/fall time kicker for ATF/ATF2 *Active* 11-Aug-06

Sam Heifets, SLAC (heifets@slac.stanford.edu)

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

*2.2.5.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

Richard Helms, Cornell (helms@lepp.cornell.edu)

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

3.7.5.A Develop methodology for fast dispersion measurements (including testing and operation in CESR-c/CesrTA) *Inactive* 12-May-07

Robert Holtzapple, Alfred U (holtzapple@alfred.edu)

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

ILC Damping Rings Researchers' Activities

17-Aug-07

Gang Huang, LBNL (ghuang@lbl.gov)

2.2.4.A Experimental studies of fast ion instability at the LBNL-ALS *Active* 17-Aug-07

James Jones, ASTeC (j.k.jones@dl.ac.uk)

2.1.4.A Low-emittance tuning techniques and requirements *Active* 17-May-07

Roger Jones, Manchester/CI (rmj@slac.stanford.edu)

2.2.1.B Develop single-bunch impedance models and characterize instabilities *Proposed* 17-May-07

Jin-Young Jung, LBNL (JYJung@lbl.gov)

3.1.1.A Damping rings wiggler and straights vacuum system design *Active* 17-Aug-07

Ken-ichi Kanazawa, KEK (ken-ichi.kanazawa@kek.jp)

2.2.3.L Experiments on suppression of electron cloud effect *Proposed* 19-Sep-06

Pavel Karataev, RHUL (karataev@post.kek.jp)

2.2.5.K CSR studies at KEK-ATF *Active* 11-Aug-06

Eun-San Kim, KNU (eskim1@knu.ac.kr)

*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

Bob Kirby, SLAC (rek@slac.stanford.edu)

2.2.3.F Electron cloud lab measurements and PEP-II studies *Active* 17-May-07

2.2.3.K Studies of grooved vacuum chamber surfaces for electron cloud suppression *Active* 17-May-07

Kwok Ko, SLAC (kwok@SLAC.Stanford.EDU)

*2.2.1.E Simulate vacuum chamber and beamline components *Proposed* 10-Aug-06

Haruyo Koiso, KEK (haruyo.koiso@kek.jp)

*4.1.1.B Operation of KEKB LER in a low-emittance mode *Proposed* 19-Sep-06

Anatoly Krasnykh, SLAC (krasnykh@slac.stanford.edu)

*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

4.2.1.A ATF kicker development *Active* 17-Aug-07

Kiyoshi Kubo, KEK (kiyoshi.kubo@kek.jp)

4.1.1.A ATF beam dynamics and instrumentation studies *Active* 11-Aug-06

Brett Kuekan, SLAC (kuekan@SLAC.Stanford.EDU)

2.2.3.G Studies of clearing electrodes for suppressing electron cloud build-up *Proposed* 17-May-07

ILC Damping Rings Researchers' Activities

17-Aug-07

Masao Kuriki, KEK (masao.kuriki@kek.jp)

3.7.2.A KEK-ATF BPM electronics *Active* 17-May-07

Nadine Kurita, SLAC (kurita@slac.stanford.edu)

2.2.3.F Electron cloud lab measurements and PEP-II studies *Active* 17-May-07

Ray Larsen, SLAC (larsen@slac.stanford.edu)

*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

Robert Lill, ANL (rlill@aps.anl.gov)

*3.7.2.B Single-pass, high-resolution RF BPM *Proposed* 11-Aug-06

Alex Lumpkin, ANL (lumpkin@aps.anl.gov)

3.7.3.A Development of time-resolved photon diagnostics *Proposed* 12-May-07

Bob Macek, LANL (macek@lanl.gov)

2.2.3.F Electron cloud lab measurements and PEP-II studies *Active* 17-May-07

Oleg Malyshev, ASTeC (o.b.malyshev@dl.ac.uk)

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

*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

Fabio Marcellini, INFN-LNF (fabio.marcellini@lnf.infn.it)

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

Aleksandar Markovik, Rostock (aleksandar.markovik@uni-rostock.de)

2.2.3.C Model electron-cloud build-up and instabilities *Proposed* 12-May-07

Steve Marks, LBNL (s_marks@lbl.gov)

3.1.1.A Damping rings wiggler and straights vacuum system design *Active* 17-Aug-07

3.13.1.A Mechanical systems design and integration *Active* 17-Aug-07

Mika Masuzawa, KEK (mika.masuzawa@kek.jp)

4.1.1.C Effects of wiggler *Proposed* 19-Sep-06

Thomas Mattison, UBC (mattison@slac.stanford.edu)

*3.5.1.I Saturating ferrite pulse-sharpener for damping ring kickers *Proposed* 18-May-07

ILC Damping Rings Researchers' Activities

17-Aug-07

Justin May, SLAC (jemay@slac.stanford.edu)

3.7.2.A KEK-ATF BPM electronics *Active* 17-May-07

Bob Meller, Cornell (rem@lepp.cornell.edu)

3.5.1.C Development of fast injection/extraction kickers *Active* 17-May-07

4.2.1.E ATF instrumentation and hardware development *Active* 17-May-07

Kai Meng Hock, Liverpool/CI (k.meng_hock@dl.ac.uk)

2.2.2.A Impedance-driven coupled-bunch instabilities *Active* 17-May-07

2.2.5.D Characterize injection/extraction transients *Active* 17-May-07

Leo Michelotti, FNAL (michelotti@fnal.gov)

2.2.5.B Self-consistent modeling of space-charge effects *Proposed* 11-Aug-06

2.3.1.A Integrated modeling of damping ring beam dynamics *Proposed* 11-Aug-06

Akio Morita, KEK (akio.morita@kek.jp)

4.1.1.B Operation of KEKB LER in a low-emittance mode *Proposed* 19-Sep-06

Takashi Naito, KEK (Takashi.Naito@kek.jp)

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

3.7.2.A KEK-ATF BPM electronics *Active* 17-May-07

*4.2.1.B Development of fast rise/fall time kicker for ATF/ATF2 *Active* 11-Aug-06

Janice Nelson, SLAC (jnelson@slac.stanford.edu)

4.1.1.A ATF beam dynamics and instrumentation studies *Active* 11-Aug-06

King Ng, FNAL (ng@fnal.gov)

2.2.5.B Self-consistent modeling of space-charge effects *Proposed* 11-Aug-06

2.3.1.A Integrated modeling of damping ring beam dynamics *Proposed* 11-Aug-06

Alexander Novokhatski, SLAC (novo@SLAC.Stanford.EDU)

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

2.2.3.G Studies of clearing electrodes for suppressing electron cloud build-up *Proposed* 17-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

Kazuhito Ohmi, KEK (ohmi@post.kek.jp)

*2.2.3.E Model electron cloud build-up and instabilities *Active* 28-Apr-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

ILC Damping Rings Researchers' Activities

17-Aug-07

Yukiyoshi Ohnishi, KEK (yukiyoshi.onishi@kek.jp)

2.1.2.B Dynamic aperture studies *Proposed* 17-May-07

Hasan Padamsee, Cornell (hsp3@cornell.edu)

* 3.6.2.A Development of 650 MHz superconducting RF cavity and cryomodule *Proposed* 11-Aug-06

Mark Palmer, Cornell (map36@cornell.edu)

* 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.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

* 4.2.1.D Development of CesrTA *Proposed* 11-Aug-06

Kosmas Panagiotidis, Liverpool/CI (k.panagiotidis@liverpool.ac.uk)

2.1.4.A Low-emittance tuning techniques and requirements *Active* 17-May-07

Gregg Penn, LBNL (gepenn@lbl.gov)

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

Mauro Pivi, SLAC (mpivi@slac.stanford.edu)

* 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

Dave Plate, LBNL (dwplate@lbl.gov)

- 3.1.1.A Damping rings wiggler and straights vacuum system design *Active* 17-Aug-07
- 3.13.1.A Mechanical systems design and integration *Active* 17-Aug-07

Gisela Poplau, Rostock (gisela.poeplau@etechnik.uni-rostock.de)

- 2.2.3.C Model electron-cloud build-up and instabilities *Proposed* 12-May-07

Miro Preger, INFN-LNF (Miro.Preger@Inf.infn.it)

- 2.1.2.C Study of beam dynamics with wigglers *Proposed* 10-Aug-06

Pantaleo Raimondi, INFN-LNF (Pantaleo.Raimondi@Inf.infn.it)

- 2.2.3.G Studies of clearing electrodes for suppressing electron cloud build-up *Proposed* 17-May-07

Alessandro Ratti, LBNL (aratti@lbl.gov)

- 3.7.5.B Development of betatron tune monitor and coherent signal receiver *Proposed* 17-May-07
- 3.8.1.B Characterize injection noise *Proposed* 10-Aug-06

Tor Raubenheimer, SLAC (tor@slac.stanford.edu)

- 2.2.3.F Electron cloud lab measurements and PEP-II studies *Active* 17-May-07
- 2.2.3.K Studies of grooved vacuum chamber surfaces for electron cloud suppression *Active* 17-May-07
- *4.2.1.F ATF multibunch feedback *Active* 25-May-07

Ina Reichel, LBNL (ireichel@lbl.gov)

- *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

Ron Reid, ASTeC (r.j.reid@dl.ac.uk)

- 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
- 3.1.1.E Vacuum design of damping rings *Active* 20-Sep-06

David Rice, Cornell (dhr1@cornell.edu)

- 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
- 3.4.6.C Develop engineering design for ILC damping wigglers based on CESR-c superconducting wiggler design *Proposed* 17-May-07

ILC Damping Rings Researchers' Activities

17-Aug-07

Marc Ross, FNAL (mcrec@slac.stanford.edu)

* 3.3.8.B	Damping ring power system design	<i>Proposed</i>	18-May-07
3.5.1.A	Development of high-availability injection/extraction kicker (SLAC/LLNL)	<i>Active</i>	17-May-07
* 3.5.1.B	Development of high-availability injection/extraction kicker (SLAC/KEK)	<i>Active</i>	18-Aug-06
* 3.7.2.A	KEK-ATF BPM electronics	<i>Active</i>	17-May-07
* 4.1.1.A	ATF beam dynamics and instrumentation studies	<i>Active</i>	11-Aug-06

David Rubin, Cornell (dlr@cesr10.lns.cornell.edu)

* 2.1.1.H	Modelling of alternative injection/extraction techniques - RF deflection schemes and other techniques	<i>Proposed</i>	17-May-07
2.1.4.B	Develop low-emittance tuning strategies with validation in CesrTA	<i>Active</i>	17-May-07
4.2.1.D	Development of CesrTA	<i>Proposed</i>	11-Aug-06

David Sagan, Cornell (dcs16@cornell.edu)

* 2.2.5.G	Estimate the impact from CSR	<i>Active</i>	12-May-07
2.2.5.H	Simulation of the Touschek lifetime and intrabeam scattering effects with measurements in CesrTA	<i>Active</i>	17-May-07

Vadim Sajaev, ANL (sajaev@aps.anl.gov)

2.1.3.B	Orbit and coupling correction and tuning studies	<i>Proposed</i>	17-May-07
2.3.1.A	Integrated modeling of damping ring beam dynamics	<i>Proposed</i>	11-Aug-06

Ross Schlueter, LBNL (RDSchlueter@lbl.gov)

* 3.1.1.A	Damping rings wiggler and straights vacuum system design	<i>Active</i>	17-Aug-07
* 3.3.3.A	Damping ring magnet design	<i>Proposed</i>	18-May-07
* 3.13.1.A	Mechanical systems design and integration	<i>Active</i>	17-Aug-07

Daniel Schulte, CERN (Daniel.Schulte@cern.ch)

2.2.3.R	Develop a PIC code for computing electron cloud and ion effects	<i>Active</i>	20-Sep-06
2.2.4.I	Characterize ion effects in the damping rings	<i>Completed</i>	20-Sep-06

John Seeman, SLAC (seeman@slac.stanford.edu)

2.2.3.F	Electron cloud lab measurements and PEP-II studies	<i>Active</i>	17-May-07
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Cao Jian She, IHEP ()

* 3.7.2.C	Damping rings instrumentation	<i>Proposed</i>	11-Aug-06
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Kyo Shibata, KEK (kyo.shibata@kek.jp)

2.2.3.L	Experiments on suppression of electron cloud effect	<i>Proposed</i>	19-Sep-06
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Eric Smith, Cornell (ensmith@ccmr.cornell.edu)

3.4.6.C	Develop engineering design for ILC damping wigglers based on CESR-c superconducting wiggler design	<i>Proposed</i>	17-May-07
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ILC Damping Rings Researchers' Activities

17-Aug-07

Steve Smith, SLAC (ssmith@slac.stanford.edu)

3.7.2.A KEK-ATF BPM electronics *Active* 17-May-07

Tonee Smith, SLAC (tonee@slac.stanford.edu)

3.7.2.A KEK-ATF BPM electronics *Active* 17-May-07

Panagiotis Spentzouris, FNAL (spentz@fnal.gov)

*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

Charles Strohman, Cornell (crs5@cornell.edu)

3.7.3.B Develop instrumentation for monitoring emittance damping (including testing and operation in CESR-c and CesrTA) *Active* 17-May-07

Gennady Stupakov, SLAC (stupakov@slac.stanford.edu)

2.2.1.D Calculate impedance of vacuum chamber components *Proposed* 17-May-07

Yusuke Suetsugu, KEK (yusuke.suetsugu@kek.jp)

*2.2.3.L Experiments on suppression of electron cloud effect *Proposed* 19-Sep-06

Yi Peng Sun, IHEP (ypsun@mail.ihep.ac.cn)

*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

Eugene Tanke, Cornell (tanke@mail.lepp.cornell.edu)

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

3.7.3.B Develop instrumentation for monitoring emittance damping (including testing and operation in CESR-c and CesrTA) *Active* 17-May-07

Masaki Tejima, KEK (masaki.tejima@kek.jp)

3.8.1.E Bunch-by-bunch feedback systems and related diagnostics systems *Proposed* 19-Sep-06

ILC Damping Rings Researchers' Activities

17-Aug-07

Nobuhiro Terunuma, KEK (nobuhiro.terunuma@kek.jp)

2.2.4.H	Measure fast ion instability in KEK-ATF	<i>Active</i>	<i>12-May-07</i>
2.2.5.K	CSR studies at KEK-ATF	<i>Active</i>	<i>11-Aug-06</i>
3.5.1.B	Development of high-availability injection/extraction kicker (SLAC/KEK)	<i>Active</i>	<i>18-Aug-06</i>
3.7.2.A	KEK-ATF BPM electronics	<i>Active</i>	<i>17-May-07</i>
4.1.1.A	ATF beam dynamics and instrumentation studies	<i>Active</i>	<i>11-Aug-06</i>
4.2.1.B	Development of fast rise/fall time kicker for ATF/ATF2	<i>Active</i>	<i>11-Aug-06</i>

Maury Tigner, Cornell (mt52@cornell.edu)

2.1.4.C	Specify the alignment tolerances and stabilization requirements for the damping rings	<i>Active</i>	<i>17-May-07</i>
2.2.5.H	Simulation of the Touschek lifetime and intrabeam scattering effects with measurements in CsrTA	<i>Active</i>	<i>17-May-07</i>

Makoto Tobiya, KEK (makoto.tobiyama@kek.jp)

*3.8.1.E	Bunch-by-bunch feedback systems and related diagnostics systems	<i>Proposed</i>	<i>19-Sep-06</i>
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Shi Cai Tu, IHEP ()

*3.3.2.A	Damping rings magnet design	<i>Proposed</i>	<i>11-Aug-06</i>
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Junji Urakawa, KEK (junji.urakawa@kek.jp)

*2.2.4.H	Measure fast ion instability in KEK-ATF	<i>Active</i>	<i>12-May-07</i>
2.2.5.K	CSR studies at KEK-ATF	<i>Active</i>	<i>11-Aug-06</i>
3.5.1.B	Development of high-availability injection/extraction kicker (SLAC/KEK)	<i>Active</i>	<i>18-Aug-06</i>
4.1.1.A	ATF beam dynamics and instrumentation studies	<i>Active</i>	<i>11-Aug-06</i>
4.2.1.B	Development of fast rise/fall time kicker for ATF/ATF2	<i>Active</i>	<i>11-Aug-06</i>

Jeremy Urban, Cornell (jtu2@cornell.edu)

3.4.6.A	Develop physics design for damping wigglers	<i>Inactive</i>	<i>12-May-07</i>
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Cristina Vaccarezza, INFN-LNF (Cristina.Vaccarezza@lnf.infn.it)

2.2.3.F	Electron cloud lab measurements and PEP-II studies	<i>Active</i>	<i>17-May-07</i>
2.2.3.H	Electron cloud studies in DAFNE	<i>Proposed</i>	<i>10-Aug-06</i>
2.2.3.N	Benchmarking of electron-cloud build-up simulations	<i>Active</i>	<i>20-Sep-06</i>
2.2.3.O	Improvement of electron-cloud simulation codes	<i>Active</i>	<i>20-Sep-06</i>
2.2.3.P	Predict electron-cloud effect in the damping rings	<i>Active</i>	<i>20-Sep-06</i>
2.2.3.Q	Experimental determination of surface parameters for electron-cloud build-up	<i>Active</i>	<i>20-Sep-06</i>
3.1.1.E	Vacuum design of damping rings	<i>Active</i>	<i>20-Sep-06</i>

Ursula van Rienen, Rostock (ursula.van-rienen@uni-rostock.de)

2.2.3.C	Model electron-cloud build-up and instabilities	<i>Proposed</i>	<i>12-May-07</i>
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ILC Damping Rings Researchers' Activities

17-Aug-07

Marco Venturini, LBNL (MVenturini@lbl.gov)

2.2.3.A	Model electron cloud instability	<i>Active</i>	<i>17-Aug-07</i>
2.2.3.I	CesrTA wiggler and electron cloud studies	<i>Proposed</i>	<i>17-May-07</i>
2.2.4.A	Experimental studies of fast ion instability at the LBNL-ALS	<i>Active</i>	<i>17-Aug-07</i>
*2.2.5.A	Characterize selected single-bunch instabilities	<i>Active</i>	<i>17-Aug-07</i>

Lanfa Wang, SLAC (wanglf@slac.stanford.edu)

2.2.3.B	Model electron-cloud build-up and instabilities	<i>Active</i>	<i>17-May-07</i>
2.2.3.F	Electron cloud lab measurements and PEP-II studies	<i>Active</i>	<i>17-May-07</i>
2.2.3.G	Studies of clearing electrodes for suppressing electron cloud build-up	<i>Proposed</i>	<i>17-May-07</i>
2.2.3.I	CesrTA wiggler and electron cloud studies	<i>Proposed</i>	<i>17-May-07</i>
2.2.3.K	Studies of grooved vacuum chamber surfaces for electron cloud suppression	<i>Active</i>	<i>17-May-07</i>
*2.2.4.B	Numerical and analytical studies of two-stream (beam-ion) instabilities	<i>Active</i>	<i>17-May-07</i>
*2.2.4.F	Studies of suppression techniques for fast ion instability	<i>Active</i>	<i>17-May-07</i>
*2.2.4.G	Experimental studies of fast ion instability	<i>Proposed</i>	<i>12-May-07</i>

Rainer Wanzenberg, DESY (rainer.wanzenberg@desy.de)

*2.2.3.C	Model electron-cloud build-up and instabilities	<i>Proposed</i>	<i>12-May-07</i>
2.2.3.N	Benchmarking of electron-cloud build-up simulations	<i>Active</i>	<i>20-Sep-06</i>
2.2.3.O	Improvement of electron-cloud simulation codes	<i>Active</i>	<i>20-Sep-06</i>
2.2.3.P	Predict electron-cloud effect in the damping rings	<i>Active</i>	<i>20-Sep-06</i>
2.2.3.Q	Experimental determination of surface parameters for electron-cloud build-up	<i>Active</i>	<i>20-Sep-06</i>
3.1.1.E	Vacuum design of damping rings	<i>Active</i>	<i>20-Sep-06</i>

Glen White, SLAC (whitegr@slac.stanford.edu)

4.1.1.A	ATF beam dynamics and instrumentation studies	<i>Active</i>	<i>11-Aug-06</i>
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Russell Wilcox, LBNL (RBWilcox@lbl.gov)

3.6.4.A	Develop low-level RF systems	<i>Proposed</i>	<i>17-May-07</i>
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Ferdinand Willeke, DESY (ferdinand.willeke@desy.de)

*4.2.1.C	Development of HERA-DR	<i>Proposed</i>	<i>11-Aug-06</i>
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Andy Wolski, Liverpool/CI (a.wolski@dl.ac.uk)

* 2.1.4.A	Low-emittance tuning techniques and requirements	<i>Active</i>	<i>17-May-07</i>
* 2.2.1.B	Develop single-bunch impedance models and characterize instabilities	<i>Proposed</i>	<i>17-May-07</i>
* 2.2.2.A	Impedance-driven coupled-bunch instabilities	<i>Active</i>	<i>17-May-07</i>
2.2.3.F	Electron cloud lab measurements and PEP-II studies	<i>Active</i>	<i>17-May-07</i>
* 2.2.5.D	Characterize injection/extraction transients	<i>Active</i>	<i>17-May-07</i>
* 2.2.5.I	Estimate impact of intrabeam scattering on extracted (non-equilibrium) emittances	<i>Proposed</i>	<i>11-Aug-06</i>
2.2.5.J	Study of CSR effects at KEK-ATF	<i>Proposed</i>	<i>17-May-07</i>

Mark Woodley, SLAC (mdw@slac.stanford.edu)

4.1.1.A	ATF beam dynamics and instrumentation studies	<i>Active</i>	<i>11-Aug-06</i>
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Guoxing Xia, DESY (guoxing.xia@desy.de)

* 2.2.4.D	Studies of fast ion instability	<i>Active</i>	<i>11-Aug-06</i>
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Aimin Xiao, ANL (xiaoam@aps.anl.gov)

2.1.1.C	Damping ring lattice design and optimization	<i>Active</i>	<i>17-May-07</i>
2.1.1.G	Alternative ring designs	<i>Proposed</i>	<i>11-Aug-06</i>
2.1.3.B	Orbit and coupling correction and tuning studies	<i>Proposed</i>	<i>17-May-07</i>
2.3.1.A	Integrated modeling of damping ring beam dynamics	<i>Proposed</i>	<i>11-Aug-06</i>

Bingxin Yang, ANL (bxyang@aps.anl.gov)

* 3.7.3.A	Development of time-resolved photon diagnostics	<i>Proposed</i>	<i>12-May-07</i>
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Dong Hai Yi, IHEP ()

* 3.1.1.D	Vacuum chamber studies	<i>Proposed</i>	<i>11-Aug-06</i>
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Frank Zimmermann, CERN (Frank.Zimmermann@cern.ch)

* 2.2.3.N	Benchmarking of electron-cloud build-up simulations	<i>Active</i>	<i>20-Sep-06</i>
* 2.2.3.O	Improvement of electron-cloud simulation codes	<i>Active</i>	<i>20-Sep-06</i>
* 2.2.3.P	Predict electron-cloud effect in the damping rings	<i>Active</i>	<i>20-Sep-06</i>
* 2.2.3.Q	Experimental determination of surface parameters for electron-cloud build-up	<i>Active</i>	<i>20-Sep-06</i>
2.2.3.R	Develop a PIC code for computing electron cloud and ion effects	<i>Active</i>	<i>20-Sep-06</i>
* 2.2.4.I	Characterize ion effects in the damping rings	<i>Completed</i>	<i>20-Sep-06</i>
* 3.1.1.E	Vacuum design of damping rings	<i>Active</i>	<i>20-Sep-06</i>

ILC Damping Rings Researchers' Activities

17-Aug-07

Michael Zisman, LBNL (mszisman@lbl.gov)

2.1.1.A	Injection and Extraction Beam Line Design and Characterisation	<i>Active</i>	<i>17-Aug-07</i>
*2.1.2.A	Characterize baseline damping rings dynamic aperture	<i>Active</i>	<i>17-Aug-07</i>
*2.1.4.D	Low emittance tuning	<i>Proposed</i>	<i>17-Aug-07</i>
2.2.2.C	Characterize the effects of transients during the injection/extraction process on the damped bunches	<i>Active</i>	<i>17-Aug-07</i>
2.2.3.I	CesrTA wiggler and electron cloud studies	<i>Proposed</i>	<i>17-May-07</i>
2.2.4.A	Experimental studies of fast ion instability at the LBNL-ALS	<i>Active</i>	<i>17-Aug-07</i>
2.2.5.A	Characterize selected single-bunch instabilities	<i>Active</i>	<i>17-Aug-07</i>