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Andrei Afanasev (Hampton University, Hampton, Virginia), Rolland Paul Johnson (Muons, Inc, Batavia). PAC-2011-THP199, Mar 2011

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**Improved DC Gun Insulator Assembly.**[**Richard Sah**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Sah%2C%20Richard%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Alan Dudas**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Dudas%2C%20Alan%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Michael Neubauer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Neubauer%2C%20Michael%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Matt Poelker**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Poelker%2C%20Matt%22)**, (**[**JLAB, FEL**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=JLAB,+FEL)**) ,** [**Kenneth Surles-Law**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Surles%2DLaw%2C%20Kenneth%22)**, (**[**JLAB, FEL**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=JLAB,+FEL)**) . IPAC-2010-TUPEC019, May 2010.
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 **G4Beamline Simulation Code**

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**Phase and Frequency Locked Magnetrons for SRF Sources.**[**Milorad Popovic**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Popovic%2C%20Milorad%22)**,** [**Alfred Moretti**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Moretti%2C%20Alfred%22)**, (**[**Fermilab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Fermilab)**) ,** [**Alan Dudas**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Dudas%2C%20Alan%22)**,** [**Rolland Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20Rolland%22)**,** [**Michael Neubauer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Neubauer%2C%20Michael%22)**,** [**Richard Sah**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Sah%2C%20Richard%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) . IPAC-2010-THPEB058, May 2010.
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 **RF Windows**

**High Power Coax Window.**[**Michael Neubauer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Neubauer%2C%20Michael%22)**,** [**Alan Dudas**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Dudas%2C%20Alan%22)**,** [**Richard Sah**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Sah%2C%20Richard%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Thomas Elliott**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Elliott%2C%20Thomas%22)**,** [**Robert Rimmer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Rimmer%2C%20Robert%22)**,** [**Mircea Stirbet**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Stirbet%2C%20Mircea%22)**, (**[**JLAB, FEL**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=JLAB,+FEL)**) . IPAC-2010-WEPEC062, May 2010.
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**Adjustable High Power Coax RF Coupler without Moving Parts.**[**Michael Neubauer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Neubauer%2C%20Michael%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Alan Dudas**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Dudas%2C%20Alan%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Richard Sah**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Sah%2C%20Richard%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Michael Borland**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Borland%2C%20Michael%22)**, (**[**Argonne**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Argonne)**) ,** [**Ali Nassiri**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Nassiri%2C%20Ali%22)**, (**[**Argonne**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Argonne)**) . IPAC-2010-THPEB059, May 2010.
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**Phase and Frequency Locked Magnetrons for SRF Sources.**[**M. Neubauer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Neubauer%2C%20M%2E%22)**,** [**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**, (**[**Muons Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Muons+Inc.,+Batavia)**) ,** [**M. Popovic**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Popovic%2C%20M%2E%22)**,** [**A. Moretti**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Moretti%2C%20A%2E%22)**, (**[**Fermilab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Fermilab)**) . FERMILAB-CONF-09-202-AD, May 2009. 3pp.
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 **SRF: Cavities**

**Beam Dynamics Studies of Parallel-Bar Deflecting Cavities**

Shahid Ahmed, Jean Roger Delayen, Alicia Hofler, Geoffrey Arthur Krafft, Michael Spata, Michael George Tiefenback (JLAB, Newport News, Virginia), Kevin Beard (Muons, Inc, Batavia), Subashini D. Silva (ODU, Norfolk, Virginia), Kirsten Deitrick (RPI, Troy, New York). PAC 2011-TUODN3 Mar. 2011

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**Novel Crab Cavity RF Design.**[**Michael Neubauer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Neubauer%2C%20Michael%22)**,** [**Alan Dudas**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Dudas%2C%20Alan%22)**,** [**Richard Sah**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Sah%2C%20Richard%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Geoffrey Krafft**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Krafft%2C%20Geoffrey%22)**,** [**Robert Rimmer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Rimmer%2C%20Robert%22)**, (**[**JLAB, FEL**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=JLAB,+FEL)**) . IPAC-2010-WEPEC061, May 2010.
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 **SRF: Couplers**

**Adjustable High Power Coax Coupler without Moving Parts**

Michael Neubauer, Alan Dudas, Richard Sah (Muons, Inc, Batavia), Ali Nassiri (ANL, Argonne). PAC-2011-TUP095, Mar 2011

New Phase I STTR project.

 **SRF: HOM Dampers**

**Beam Pipe HOM Absorber for SRF Cavities**

Richard Sah, Alan Dudas, Michael Neubauer (Muons, Inc, Batavia), Georg H. Hoffstaetter, Matthias Liepe, Hasan Padamsee, Valery D. Shemelin (CLASSE, Ithaca, New York), Kwok Ko, Cho-Kuen Ng, Liling Xiao (SLAC, Menlo Park, California). PAC-2011-TUP096, Mar 2011

<http://www.c-ad.bnl.gov/pac2011/proceedings/papers/tup096.pdf>

**Beam Pipe HOM Absorber for 750 MHz RF Cavities.**[**Michael Neubauer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Neubauer%2C%20Michael%22)**,** [**Alan Dudas**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Dudas%2C%20Alan%22)**,** [**Richard Sah**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Sah%2C%20Richard%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Georg Hoffstaetter**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Hoffstaetter%2C%20Georg%22)**,** [**Matthias Liepe**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Liepe%2C%20Matthias%22)**,** [**Hasan Padamsee**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Padamsee%2C%20Hasan%22)**,** [**Valery Shemeli**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Shemeli%2C%20Valery%22)**, (**[**Cornell U., CLASSE**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Cornell+U.,+CLASSE)**) . IPAC-2010-WEPEC060, May 2010.
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 **SRF: Project-X**

**Intense Muon Beams for Experiments at Project X**

Charles Ankenbrandt, Rolland Paul Johnson, Cary Y. Yoshikawa (Muons, Inc, Batavia), James Miller (BUphy, Boston, Massachusetts), Vladimir Kashikhin, David Neuffer (Fermilab, Batavia), Robert Rimmer (JLAB, Newport News, Virginia). PAC 2011-WEP249 Mar. 2011

<http://www.c-ad.bnl.gov/pac2011/proceedings/papers/wep249.pdf>

**Using Project X as a Proton Driver for Muon Colliders and Neutrino Factories.**[**G. Flanagan**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Flanagan%2C%20G%2E%22)**,** [**R. Abrams**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Abrams%2C%20R%2E%22)**,** [**C. Ankenbrandt**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Ankenbrandt%2C%20C%2E%22)**,** [**M.A.C. Cummings**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Cummings%2C%20M%2EA%2EC%2E%22)**,** [**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Milorad Popovic**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Popovic%2C%20Milorad%22)**,** [**Al Moreti**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Moreti%2C%20Al%22)**, (**[**Fermilab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Fermilab)**) . IPAC-2010-4452-4454, IPAC-2010-THPD074, May 2010. 3pp.
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**Using Project X as a Proton Driver for Muon Colliders and Neutrino Factories.**[**Charles Ankenbrandt**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Ankenbrandt%2C%20Charles%22)**,** [**Rolland P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20Rolland%20P%2E%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) . HB2008-WGE08, Aug 2008. 6pp.
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**A Shared Superconducting LINAC for Protons and Muons.**[**M. Popovic**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Popovic%2C%20M%2E%22)**,** [**C.M. Ankenbrandt**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Ankenbrandt%2C%20C%2EM%2E%22)**, (**[**Fermilab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Fermilab)**) ,** [**S.A. Bogacz**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Bogacz%2C%20S%2EA%2E%22)**, (**[**Jefferson Lab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Jefferson+Lab)**) ,** [**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) . Aug 2006. 3pp.
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 **NC RF: High Pressure**

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 **NC RF: Dielectric**

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**RF Cavities Loaded with Dielectric for Muon Facilities.**[**M. Popovic**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Popovic%2C%20M%2E%22)**,** [**A. Moretti**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Moretti%2C%20A%2E%22)**, (**[**Fermilab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Fermilab)**) ,** [**C.M. Ankenbrandt**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Ankenbrandt%2C%20C%2EM%2E%22)**,** [**M.A.C. Cummings**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Cummings%2C%20M%2EA%2EC%2E%22)**,** [**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**,** [**M. Neubauer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Neubauer%2C%20M%2E%22)**, (**[**Muons Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Muons+Inc.,+Batavia)**) . FERMILAB-CONF-09-200-AD, May 2009. 3pp.
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 **NC RF: Tunable RF Cavities**

**Tunable RF Cavities Using Orthogonally Biased Ferrite.**[**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**,** [**M. Alsharo'a**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Alsharo%27a%2C%20M%2E%22)**,** [**C.M. Ankenbrandt**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Ankenbrandt%2C%20C%2EM%2E%22)**,** [**I. Entchevitch**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Entchevitch%2C%20I%2E%22)**,** [**J.E. Griffin**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Griffin%2C%20J%2EE%2E%22)**, (**[**Muons Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Muons+Inc.,+Batavia)**) ,** [**A. Moretti**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Moretti%2C%20A%2E%22)**,** [**M. Popovic**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Popovic%2C%20M%2E%22)**,** [**R. Tomlin**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Tomlin%2C%20R%2E%22)**, (**[**Fermilab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Fermilab)**) . FERMILAB-CONF-09-201-AD-TD, May 2009. 3pp.
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 **Monoenergetic Photons**

**A Cooled Generalized Multiple Target System to Create Positrons for a Compact Tunable Intense Gamma Ray Source**

Cary Y. Yoshikawa, Charles Ankenbrandt (Muons, Inc, Batavia), David Neuffer (Fermilab, Batavia), Andrei Afanasev (Hampton University, Hampton, Virginia). PAC-2011-THP025, Mar 2011

<http://www.c-ad.bnl.gov/pac2011/proceedings/papers/thp025.pdf>

**Positron Production for a Compact Tunable Intense Gamma Ray Source.**[**Cary Yoshikawa**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Yoshikawa%2C%20Cary%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Robert Abrams**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Abrams%2C%20Robert%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Andrei Afanasev**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Afanasev%2C%20Andrei%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Charles Ankenbrandt**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Ankenbrandt%2C%20Charles%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Kevin Beard**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Beard%2C%20Kevin%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**David Neuffer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Neuffer%2C%20David%22)**, (**[**Fermilab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Fermilab)**) . IPAC-2010-MOPEA045, May 2010.
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**Quasi-monochromatic Positrons using Dipole and Wedge.**[**Robert Abrams**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Abrams%2C%20Robert%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Charles Ankenbrandt**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Ankenbrandt%2C%20Charles%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Cary Yoshikawa**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Yoshikawa%2C%20Cary%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) . IPAC-2010-MOPEA044, May 2010.
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**Quasi-Monoenergetic Photon Source Based on Electron-Positron In-Flight Annihilation.**[**Andrei Afanasev**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Afanasev%2C%20Andrei%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Robert Abrams**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Abrams%2C%20Robert%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Charles Ankenbrandt**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Ankenbrandt%2C%20Charles%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Kevin Beard**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Beard%2C%20Kevin%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Rolland Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20Rolland%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Thomas Roberts**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Roberts%2C%20Thomas%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Cary Yoshikawa**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Yoshikawa%2C%20Cary%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Milorad Popovic**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Popovic%2C%20Milorad%22)**, (**[**Fermilab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Fermilab)**) . IPAC-2010-MOPEA043, May 2010.
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 **Accelerator-Driven Subcritical Reactors**

**Accelerators for Subcritical Molten-Salt Reactors**

Roland Johnson, Muons, Inc. Colloquium at Fermilab, Aug. 3, 2011

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**Accelerators for Subcritical Molten Salt Reactors**

Rolland Paul Johnson (Muons, Inc, Batavia), Charles Bowman (ADNA, Los Alamos, New Mexico). PAC-2011-THP034, Mar 2011

[**http://www.c-ad.bnl.gov/pac2011/proceedings/papers/thp034.pdf**](http://www.c-ad.bnl.gov/pac2011/proceedings/papers/thp034.pdf)

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**HTS Magnets**

**Fabrication and test of short helical solenoid model based on YBCO tape.
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**Mechanical analysis and test results of 4-coil superconducting helical solenoid model.**[**M. Yu *et al.***](http://www.slac.stanford.edu/spires/find/hep/wwwauthors?key=9007334) **FERMILAB-CONF-10-568-TD, 2010. 8pp.
Prepared for Cryogenic Engineering Conference and International Cryogenic Materials Conference, Tucson, Arizona, 28 Jun - 2 Jul 2009.
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[**Fermilab Library Server (fulltext available)**](http://lss.fnal.gov/cgi-bin/find_paper.pl?conf-10-568)

**Roebel Cable for High-field Low-loss Accelerator Magnets.**[**Melanie Turenne**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Turenne%2C%20Melanie%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Rolland Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20Rolland%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**Frank Hunte**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Hunte%2C%20Frank%22)**, (**[**North Carolina State U.**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=North+Carolina+State+U.)**) ,** [**Justin Schwartz**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Schwartz%2C%20Justin%22)**, (**[**North Carolina State U.**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=North+Carolina+State+U.)**) ,** [**Honghai Song**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Song%2C%20Honghai%22)**, (**[**Natl. High Mag. Field Lab.**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Natl.+High+Mag.+Field+Lab.)**) . IPAC-2010-MOPEB057, May 2010.
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**Characterization of REBCO Coated Conductors for High Field Magnets.**[**M. Turenne**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Turenne%2C%20M%2E%22)**,** [**S.A. Kahn**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Kahn%2C%20S%2EA%2E%22)**,** [**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**F. Hunte**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Hunte%2C%20F%2E%22)**,** [**L. Ye**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Ye%2C%20L%2E%22)**,** [**J. Schwartz**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Schwartz%2C%20J%2E%22)**, (**[**North Carolina State U.**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=North+Carolina+State+U.)**) . IPAC-2010-MOPEB058, May 2010. 3pp.
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**YBCO Conductor Technology for High Field Muon Cooling Magnets.**[**S.A. Kahn**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Kahn%2C%20S%2EA%2E%22)**,** [**G. Flanagan**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Flanagan%2C%20G%2E%22)**,** [**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**,** [**M. Turenne**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Turenne%2C%20M%2E%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**F. Hunte**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Hunte%2C%20F%2E%22)**,** [**J. Schwartz**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Schwartz%2C%20J%2E%22)**, (**[**North Carolina State U.**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=North+Carolina+State+U.)**) . IPAC-2010-394-396, IPAC-2010-MOPEB055, May 2010. 3pp.
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**HTS Development for 30-50 T Final Muon Cooling Solenoids.**[**S.A. Kahn**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Kahn%2C%20S%2EA%2E%22)**,** [**M. Turenne**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Turenne%2C%20M%2E%22)**,** [**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**F. Hunte**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Hunte%2C%20F%2E%22)**,** [**J. Schwartz**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Schwartz%2C%20J%2E%22)**, (**[**Florida State U.**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Florida+State+U.)**) . PAC09-MO6PFP071, May 2009. 3pp.
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**Multi-purpose Fiber Optic Sensors for HTS Magnets.**[**J. Schwartz**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Schwartz%2C%20J%2E%22)**, (**[**Natl. High Mag. Field Lab.**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Natl.+High+Mag.+Field+Lab.)**) ,** [**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**,** [**Stephen A. Kahn**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Kahn%2C%20Stephen%20A%2E%22)**,** [**M. Kuchnir**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Kuchnir%2C%20M%2E%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) . EPAC08-WEPD023, Jun 25, 2008. 3pp.
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 **Muon Cooling: Parametric-resonance Ionization Cooling**

**Epicyclic Twin-Helix Ionization Cooling Simulations**

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**Correcting Aberrations in Complex Magnet Systems for Muon Cooling Channels**

James Anthony Maloney, Bela Erdelyi [on leave] (Northern Illinois University, DeKalb, Illinois), Yaroslav Serg Derbenev [on leave] (JLAB, Newport News, Virginia), Andrei Afanasev [on leave], Rolland Paul Johnson [on leave] (Muons, Inc, Batavia), Vasiliy Morozov [on leave] (ODU, Norfolk, Virginia). PAC 2011-WEP074 Mar. 2011

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**Use of Helical Transport Channels for Bunch Recombination.**[**David Neuffer**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Neuffer%2C%20David%22)**,** [**Katsuya Yonehara**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Yonehara%2C%20Katsuya%22)**, (**[**Fermilab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Fermilab)**) ,** [**Cary Yoshikawa**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Yoshikawa%2C%20Cary%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) . FERMILAB-FN-0898-APC, NFMCC-DOC-548, Mar 2010. 11pp.**

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 **Muon Cooling: Demonstration Experiment**

**The MANX Muon Cooling Experiment Detection System.**[**S.A. Kahn**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Kahn%2C%20S%2EA%2E%22)**,** [**R.J. Abrams**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Abrams%2C%20R%2EJ%2E%22)**,** [**C. Ankenbrandt**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Ankenbrandt%2C%20C%2E%22)**,** [**M.A.C. Cummings**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Cummings%2C%20M%2EA%2EC%2E%22)**,** [**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**,** [**T.J. Roberts**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Roberts%2C%20T%2EJ%2E%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**K. Yonehara**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Yonehara%2C%20K%2E%22)**, (**[**Fermilab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Fermilab)**) . Jul 2009. 4pp.
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**Recirculating Linear Accelerators for Future Muon Facilities.**[**S.A. Bogacz**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Bogacz%2C%20S%2EA%2E%22)**, (**[**Jefferson Lab**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Jefferson+Lab)**) ,** [**K.B. Beard**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Beard%2C%20K%2EB%2E%22)**,** [**R.P. Johnson**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Johnson%2C%20R%2EP%2E%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) . IPAC-2010-3602-3604, IPAC-2010-THOAMH01, May 2010. 3pp.
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# A Complete Scheme for a Muon Collider

Robert B. Palmer, J. Scott Berg, Richard C. Fernow, Juan Carlos Gallardo, Harold G. Kirk

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**Beam Induced Detector Backgrounds at a Muon Collider.**[**S.A. Kahn**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Kahn%2C%20S%2EA%2E%22)**,** [**M.A.C. Cummings**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Cummings%2C%20M%2EA%2EC%2E%22)**,** [**T.J. Roberts**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Roberts%2C%20T%2EJ%2E%22)**, (**[**MUONS Inc., Batavia**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=MUONS+Inc.,+Batavia)**) ,** [**A.O. Morris**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Morris%2C%20A%2EO%2E%22)**,** [**D. Hedin**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Hedin%2C%20D%2E%22)**, (**[**Northern Illinois U.**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Northern+Illinois+U.)**) ,** [**J. Kozminski**](http://www.slac.stanford.edu/spires/find/wwwhepau/wwwscan?rawcmd=fin+%22Kozminski%2C%20J%2E%22)**, (**[**Lewis U.**](http://www.slac.stanford.edu/spires/find/inst/www?icncp=Lewis+U.)**) . PAC-2011-THPO88, Mar 2011. 3pp.
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 **Muon Collider: Capture**

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 **Muon Collider: Reverse Emittance Exchange**

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**WIDE BEAM ELECTRON ACCELERATORS FOR INDUSTRIAL APPLICATIONS**

**Sergey Korenev and Rolland P. Johnson**

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**PULSED LOW ENERGY ELECTRON SOURCES FOR MATERIAL SURFACE MODIFICATIONS. A. Korenev and R. P. Johnson**

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