# Raymond P. Fliller III

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# Qualified By

Eleven years post Ph.D. experience with all aspects electron and ion beam accelerator technology from design to operation, including electron sources, normal and superconducting radio frequency technology, ultrahigh vacuum techniques, magnet design, accelerator design and operation, and advanced beam manipulation. Experience in simulation of accelerator beam dynamics and a variety of data analysis techniques. Ability to generate models to describe complex physics effects.

Leader of a group of scientists and engineers to implement a major safety system for research facility. Manager of an electron linear accelerator operating as an injector for a research facility. Member of small team of scientists responsible for the operation of same research facility.

# Education

* December 2004: Ph.D. Accelerator Physics.

Dept. of Physics and Astronomy, Stony Brook University

* May 1999: M.A. Physics.

Dept. of Physics and Astronomy, Stony Brook University

* May 1997: B.S. cum Laude. Physics, member of the Honor’s College.

Dept. of Physics, Stony Brook University

# COMPUTER SKILLS

* Operating Systems: Windows and Linux
* Programming Languages: C++, Python, PERL, FORTRAN
* Analysis Software: MATLAB, ROOT, Mathematica, variety of particle accelerator simulation codes

# Employment History

* October 2013 – Present: Physicist

October 2010 – September 2013: Associate Physicist

September 2008 – September 2010: Assistant Physicist

Accelerator Division, NSLS-II Department

Brookhaven National Laboratory

Upton, NY 11973-5000

Responsibilities:

* 2014 - Present: Group Leader, Coordination Group for Top Off Injection. Responsible for all aspects of the safety system required for Top Off operation, including technical requirements, implementation, budget, and schedule.
* 2013 – Present: Accelerator Coordination Group. Responsible for linear accelerator and back up to Group Leader. Participate in commissioning shifts of the NSLS-II booster and the NSLS-II Storage Ring. Lead effort with Accelerator Division Instrumentation Group to implement a safety device used to limit the total charge output of the linear accelerator and booster.
* 2012 – Present: Member of NSLS-II Accelerator Division Local Shielding Working Group. Responsible for physics analysis of beam loss locations, review of engineering design of local shields and fault study analysis.
* 2011 – Present: NSLS-II Linac Machine Manager. Responsible for all aspects of coordinating operations the NSLS-II linac including accelerator readiness, physics, safety, coordination of resources, and interface with operations.
* 2010 – 2013: Design of the NSLS-II booster. Focus on beam dynamics, acceptance, dynamic aperture optimization, error tolerances, ramp development, and a novel beam accumulation system. This system was reported in Physical Review Special Topics – Accelerators and Beams.
* 2009 – 2013: Design of NSLS-II transport lines from Linac to Booster and Booster to Storage Ring, including all aspects of the physics and engineering design including beam dynamics, diagnostics, magnet design, engineering, procurement, and overall integration.
* 2009: Performed physics analysis of Pulsed Multipole Injection into the NSLS-II storage ring.
* 2008 – 2012: Lead the Linac Front End Test Stand Experiment. Goal to commission and measure the NSLS-II gun prior to installation into linac.
* October 2004 – September 2008: Postdoctoral Research Associate

A0 Photoinjector Group, Accelerator Division

Fermi National Accelerator Laboratory

Batavia, IL, 60510-5011

Responsibilities:

Member of small team of physicists and graduate students operating a small photoinjector linear accelerator utilizing superconducting radio frequency technology. Supervised student thesis on unique beam manipulation with applications to high energy electron accelerators. This resulted in a Physical Review Letter. Studied techniques to utilize a vacuum sensitive photocathode in normal conducting radio frequency gun.

* June 2000 – September 2004: Junior Research Associate

Accelerator Physics Group, Collider-Accelerator Department

Brookhaven National Laboratory

Upton, NY 11973-5000

Responsibilities:

Graduate Student thesis using mechanically bent crystals to channel particle beams to reduce experimental backgrounds in the Relativistic Heavy Ion Collider. This system was reported in Physical Review Special Topics – Accelerators and Beams.

* June 1998 – May 2000: Graduate Research Assistant

Nuclear Structure Laboratory, Dept. of Physics

Stony Brook University

Stony Brook, NY 11794

Responsibilities:

Graduate Student. Experimental work utilizing heavy ion beams for nuclear and atomic physics experiments on Francium at low energy superconducting heavy ion accelerator.

# REFERENCES

# Dr. Eric Blum Dr. Ferdinand Willeke

## Brookhaven National Laboratory Brookhaven National Laboratory

## NSLS-II Department NSLS-II Department

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## Email: blum@bnl.gov Email: willeke@bnl.gov

## Dr. Richard Heese Mr. Elvin Harms

## Brookhaven National Laboratory Fermi National Accelerator Laboratory

## NSLS-II Department Accelerator Division

Building 744 MS 340

P.O. Box 5000 P.O. Box 500

Upton, NY 11973-5000 Batavia, IL 60150-5011

## Email: heese@bnl.gov Email: harms@fnal.gov

# REFEREED JOURNAL Publications

* [First Observation of the Exchange of Transverse and Longitudinal Emittances](http://link.aps.org/doi/10.1103/PhysRevLett.106.244801)

J. Ruan, A. S. Johnson, A. H. Lumpkin, R. Thurman-Keup, H. Edwards, R. P. Fliller, T. W. Koeth, and Y.-E Sun. Physical Review Letters 106, 244801. June 17, 2011

* Transverse beam stacking injection system for synchrotron light source booster synchrotrons

R. P. Fliller III, T. Shaftan, R. Heese, S. Kowalski, J. Rose, G. Wang. Physical Review ST Accelerators and Beams 14, 020101. February 10, 2011

* Results of bent crystal channeling and collimation at the Relativistic Heavy Ion Collider

R. P. Fliller III, A. Drees, D. Gassner, L. Hammons, G. McIntyre, S. Peggs, D. Trbojevic, V. Biryukov, Y. Chesnokov, V. Terekhov. Physical Review ST Accelerators and Beams 9, 013501. January 20, 2006

* Commissioning Results and Applications

L. Ahrens, M. Bai, M. Blaskiewicz, M. Brennan, P. Cameron, R. Connolly, A. Drees, W. Fischer, R. Fliller, D. Gassner, J. Kewisch, W. MacKay, S. Peggs, F. Pilat, V. Ptitsyn, T. Roser, T. Satogata, S. Tepikian, D. Trbojevic, J. van Zeijts. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 499, Issues 2–3, pages 415-427, 1 March 2003

* RHIC Beam Instrumentation

M. Bai, P. Cameron, P. Cerniglia, R. Connolly, J. Cupolo, C. Degen, A. Drees, R. Fliller, D. Gassner, J. Mead, V. Ptitsyn, T. Satogata, T. Shea, R. Sikora, P. Thompson, R. Witkover. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 499, Issues 2–3, Pages 372-387, 1 March 2003.

* Neutralizer for Radioactive Francium Beam

A.R. Lipski, M.R. Pearson, R.P. Fliller III, G.D. Sprouse. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 521, Issue 1, Pages 49-53, 21 March 2004

* [Lifetime measurements of the 7*D* levels of atomic francium](http://link.aps.org/doi/10.1103/PhysRevA.62.062502)

J. M. Grossman, R. P. Fliller III, L. A. Orozco, M. R. Pearson, and G. D. Sprouse. Physical Review A 62, 062502. October 2000

* [Energies and hyperfine splittings of the 7*D* levels of atomic francium](http://link.aps.org/doi/10.1103/PhysRevA.62.052507)

J. M. Grossman, R. P. Fliller III, T. E. Mehlstäubler, L. A. Orozco, M. R. Pearson, G. D. Sprouse, and W. Z. Zhao. Physical Review A 62, 052507. October 2000

# REFEREED CONFERENCE PROCEEDINGS

* RHIC Crystal Collimation

R.P. Fliller III, A. Drees, D. Gassner, L. Hammons, G. McIntyre, S. Peggs, D. Trbojevic, V. Biryukov, Y. Chesnokov, V. Terekhov. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 234, Issues 1–2, Pages 47-56, May 2005

Presented at the International Workshop on Relativistic Channeling and Related Coherent Phenomena March 23-26, 2004.

# INVITED TALKS

* Lessons Learned from NSLS-II Linac Commissioning

R. P. Fliller III and E. Zitvogel. Proceedings of the Workshop on Accelerator Operations 2014, Mainz, Germany.

* Emittance Exchange Experimental Results

R. P. Fliller III and T. Koeth. Proceedings of the Particle Accelerator Conference 2009. TU4PBI01

# SELECTED CONTRIBUTED TALKS OR POSTERS

* Design of the NSLS-II Top Off Safety System

R.P. Fliller, L. Doom, G. Ganetis, C Hetzel, P.K. Job, Y. Li, T. Shaftan, S. Sharma, O. Singh, G. Wang, Z. Xia. Proceedings of the International Particle Accelerator Conference 2015, Richmond, VA, TUPHA010

* NSLS-II Injector High Level Application Tools

G. Wang, E. B. Blum, R. P. Fliller, Y. Hu, T. Shaftan. X. Yang. Proceedings of the International Particle Accelerator Conference 2015, Richmond, VA, TUPHA008

* NSLS-II Booster Extended Integration Test

G. Wang, B. Backa, A. Blednykh, E. B. Blum, W. Cheng, J. Choi, B. Dalesio, M. Davidsaver, J. DeLong, R. P. Fliller, G. Ganetis, W. Guo, K. Ha, Y. Hu, W. Louie, T. Shaftan, G. Shen, O. Singh, Y. Tian, F. J. Willeke, L. Yang, X. Yang, P. Cheblakov, A. Derbenev, A. Erokhin, S. Karnaev, S. Sinyatkin,V. Smalyuk. Proceedings of the International Particle Accelerator Conference 2015, Richmond, VA, TUPHA007

* Analysis of Possible Beam Losses in the NSLS-II BSR Transfer Line

S. Seletskiy, R. P. Fliller, W. Guo, S. L. Kramer, Y. Li, B. Podobedov, T. Shaftan, W. H. Wahl, F. J. Willeke. Proceedings of the International Particle Accelerator Conference 2015, Richmond, VA, TUPMA056

* Analysis of Possible Beam Losses in the NSLS-II Storage Ring

S. Seletskiy, R. P. Fliller, W. Guo, S. L. Kramer, Y. Li, B. Podobedov, T. Shaftan, W. H. Wahl, F. J. Willeke. Proceedings of the International Particle Accelerator Conference 2015, Richmond, VA, TUPMA055

* Experience with First Turns Commissioning in NSLS-II Storage Ring

S. Seletskiy, G. Bassi, J. Bengtsson, A. Blednykh, E. B. Blum, W. Cheng, J. Choi, R. P. Fliller, W. Guo, R. Heese, Y. Hidaka, S. L. Kramer, Y. Li, B. Podobedov, T. Shaftan, G. Wang, F. J. Willeke, L. Yang, X. Yang. Proceedings of the International Particle Accelerator Conference 2015, Richmond, VA, TUPMA053

* NSLS-II Injector Commissioning and Initial Operation

E. B. Blum, B. Backa, G. Bassi, J Bengtsson, A. Blednykh, S. Buda, W. Cheng, J. Chio, J. Cupolo, R. D’Alsace, M. Davidsaver, J. DeLong, L. Doom, D. Durfee, R. P. Fliller, M. Fulkerson, G. Ganetis, F. Gao, C. Gardner, W. Guo, R. Heese, Y. Hidaka, Y. Hu, M. Johanson, B. Kosciuk, S. Kowalski, S. L. Kramer, S. Krinsky, Y. Li, W. Louie, M. Maggipinto, P. MArnio, J. Mead, J. Oliva, D. Padrazo, K. Pedersen, B. Podobedov, R. Rainer, J. Rose, M. Santana, S. Seletskiy, T. Shaftan, O. Singh, P. Singh, V. Smalyuk, R. Smith, T. Summers, J. Tagger, Y. Tian, W/ H/ Wahl, G. Wang, G. Weiner, F. J. Willeke, L. Yang, X. Yang, E. Zeitler, E. Zitvogel, P. Zuhoski, A. Akimov, P. Cheblakov, I. Churkin, A. Derbenev, S. Gurov, S. Karnaev, V. Kiselev, A. Korepanov, E. Levichev, S. Sinyatkin, A. Zhuravlev. Proceedings of the International Particle Accelerator Conference 2015, Richmond, VA, TUPMA050

* Energy Interlock in the NSLS-II Booster to Storage Ring Transfer Line

S. Seletskiy, R.P. Fliller, S.L. Kramer, T.V. Shaftan. Proceedings of the International Particle Accelerator Conference 2014, Dresden, Germany, WEPRO020.

* Comparison of the NSLS-II Linac Model to Measurements

R. P. Fliller III. Proceedings of the International Particle Accelerator Conference 2014, Dresden, Germany, WEPRO019

* Theoretical Maximum Current of the NSLS-II Linac

R.P. Fliller, F. Gao, G.M. Wang. Proceedings of the International Particle Accelerator Conference 2014, Dresden, Germany, WEPRO018

* Future Upgrades of the NSLS-II Injector

T.V. Shaftan, R.P. Fliller, R. Heese, J. Rose, G.M. Wang, F.J. Willeke. Proceedings of the Particle Accelerator Conference 2013, Pasadena, CA, TUPMA07

* Results of NSLS-II Linac Commissioning

R.P. Fliller, A. Blednykh, J. Choi, M.A. Davidsaver, J.H. De Long, F. Gao, C. Gardner, Y. Hu, G. Jahnes, W. Jew, J. Klug, P. Marino, D. Padrazo, L. Pharr, R. Rainer, G. Ramirez, P. Ratzke, R. Raynis, J. Rose, M. Santana, S. Seletskiy, T.V. Shaftan, J. Shah, G. Shen, O. Singh, V.V. Smaluk, C. Sorrentino, K. Vetter, G.M. Wang, G.J. Weiner, X. Yang, L.-H. Yu, E. Zeitler K. Dunkel, J.H. Hottenbacher, B. Keune, A. Metz, C. Piel. Proceedings of the International Particle Accelerator Conference 2013, Shanghai, China, WEPWA083

* Status of the NSLS-II Injector

T.V. Shaftan, A. Blednykh, E.B. Blum, W.X. Cheng, J. Choi, L.R. Dalesio, M.A. Davidsaver, J.H. De Long, R.P. Fliller, G. Ganetis, F. Gao, A. Goel, W. Guo, K. Ha, R. Heese, H.-C. Hseuh, M.P. Johanson, B.N. Kosciuk, S. Kowalski, S.L. Kramer, Y. Li, W. Louie, S. Ozaki, D. Padrazo, J. Rose, S. Seletskiy, S.K. Sharma, G. Shen, O. Singh, V.V. Smaluk, Y. Tian, K. Vetter, W.H. Wahl, G.M. Wang, F.J. Willeke, X. Yang, L.-H. Yu, P. Zuhoski. Proceedings of the International Particle Accelerator Conference 2013, Shanghai, China, MOPEA080

* NSLS-II Injector System Diagnostics Update for LINAC Commissioning

D. Padrazo, R.P. Fliller, Y. Hu, B.N. Kosciuk, I. Pinayev, S. Seletskiy, T.V. Shaftan, O. Singh. Proceedings of the Beam Instrumentation Workshop 2012, Newport News, VA. TUPG019

* Physics Results of the NSLS-II Linac Front End Test Stand

R.P. Fliller, F. Gao, J. Rose, T.V. Shaftan, X. Yang, G. Blokesch, C. Piel. Proceedings of the International Particle Accelerator Conference 2012, New Orleans, LA. MOPPP050

* Simulations of Transverse Stacking in the NSLS-II Booster

R.P. Fliller, T.V. Shaftan. Proceedings of the Particle Accelerator Conference 2011, New York, NY. WEP283

* Design of the NSLS-II Linac Front End Test Stand

R. P. Fliller III, M. Johanson, M. Lucas, J. Rose, T. Shaftan. Proceedings of the Particle Accelerator Conference 2011, New York, NY. WEP282

* Performance of the Diagnostics for NSLS-II Linac Commissioning

R.P. Fliller, R. Heese, H.-C. Hseuh, M.P. Johanson, B.N. Kosciuk, D. Padrazo, I. Pinayev, J. Rose, T.V. Shaftan, O. Singh, G.M. Wang. Proceedings of the Particle Accelerator Conference 2011, New York, NY. THP215

* Beam Diagnostics using BPM Signals from Injected and Stored Beams in a Storage Ring

G.M. Wang, W.X. Cheng, R.P. Fliller, R. Heese, T.V. Shaftan, O. Singh, F.J. Willeke. Proceedings of the Particle Accelerator Conference 2011, New York, NY. THP132

* Injection Straight Pulsed Magnet Error Tolerance Study for Top-off Injection

G.M. Wang, R.P. Fliller, R. Heese, S. Kowalski, B. Parker, T.V. Shaftan, F.J. Willeke. Proceedings of the Particle Accelerator Conference 2011, New York, NY. THP131

* NSLS-II Injector System Diagnostics

D. Padrazo, R.P. Fliller, Y. Hu, B.N. Kosciuk, R. Meier, I. Pinayev, T.V. Shaftan, O. Singh. Proceedings of the Beam Instrumentation Workshop 2010, Santa Fe, NM. TUPSM098

* NSLS-II Transport Line Performance

R.P. Fliller, W.R. Casey, R. Faussete, H. Fernandes, G. Ganetis, R. Heese, H.-C. Hseuh, P.K. Job, B.N. Kosciuk, R. Meier, D. Padrazo, I. Pinayev, J. Rose, T.V. Shaftan, O. Singh, J. Skaritka, C.J. Spataro, G.M. Wang. Proceedings of the International Particle Accelerator Conference 2010, Kyoto, Japan. TUPEC042

* Beam Stacking in the NSLS-II Booster

R.P. Fliller, R. Heese, S. Kowalski, J. Rose, T.V. Shaftan, G.M. Wang. Proceedings of the International Particle Accelerator Conference 2010, Kyoto, Japan. TUPEC041

* Optimal Twiss Parameters for Top Off Injection in a Synchrotron Light Source

R.P. Fliller III. Proceedings of the International Particle Accelerator Conference 2010, Kyoto, Japan. TUPEC040

* NSLS-II Pulsed Magnet Design Considerations

R. Heese, R.P. Fliller, R. Meier, B. Parker, M. Rehak, T.V. Shaftan, E. Weihreter, F.J. Willeke, P. Zuhoski. Proceedings of the Particle Accelerator Conference 2009, Vancouver, BC, Canada. TU5RFP009

* NSLS-II Booster Acceptance Studies

R.P. Fliller, W. Guo, R. Heese, Y. Li, T.V. Shaftan. Proceedings of the Particle Accelerator Conference 2009, Vancouver, BC, Canada. TU5RFP007

* Beam Transport and Diagnostics for the NSLS-II Injection System

R.P. Fliller, R. Alforque, R. Heese, R. Meier, J. Rose, T.V. Shaftan, O. Singh, N. Tsoupas. Proceedings of the Particle Accelerator Conference 2009, Vancouver, BC, Canada. TU5RFP006

* Emittance Exchange at the Fermilab A0 Photoinjector

T.W. Koeth, H.T. Edwards, R.P. Fliller, A.S. Johnson, A.H. Lumpkin, J. Ruan, Y.-E. Sun, R. Thurman-Keup. Proceedings of the Particle Accelerator Conference 2009, Vancouver, BC, Canada. FR5PFP020

* Bunch Length Measurement at the Fermilab A0 Photoinjector using a Martin Puplett Interferometer

R. Thurman-Keup, R.P. Fliller, G.M. Kazakevich. Proceedings of the Beam Instrumentation Workshop 2008, Tahoe City, CA. TUTPF025

* Emittance Exchange at the Fermilab A0 Photoinjector

T.W. Koeth, L. Bellantoni, H.T. Edwards, R.P. Fliller, A.S. Johnson, A.H. Lumpkin, J. Ruan, R. Thurman-Keup. Proceedings of LINAC08, Vancouver, BC, Canada. TUP113.

* Emittance Exchange at the Fermilab A0 Photoinjector T. W. Koeth, L. Bellantoni, H. T. Edwards, R.

P. Fliller, A. H. Lumpkin, J. Ruan. Proceedings of the European Particle Accelerator Conference 2008, Genoa, Italy. THPC020

* Investigation of Possible CSR Induced Energy Spread Effects with the A0 Photoinjector Bunch Compressor

R. P. Fliller, H. T. Edwards, G. M. Kazakevich, T. W. Koeth, J. Ruan, R. Thurman-Keup. Proceedings of the European Particle Accelerator Conference 2008, Genoa, Italy. THPC014

* Start to End Simulations of Transverse to Longitudinal Emittance Exchange at the A0 Photoinjector

R. P. Fliller, H. T. Edwards, T. W. Koeth, J. Ruan. Proceedings of the European Particle Accelerator Conference 2008, Genoa, Italy. THPC013

* Capture Cavity II Results at FNAL

J. Branlard, G. I. Cancelo, R. H. Carcagno, B. Chase, H. Edwards, R. P. Fliller, B. M. Hanna, E. R. Harms, A. Hocker, T. W. Koeth, M. J. Kucera, A. Makulski, U. Mavric, M. McGee, A. H. Paytyan, Y. M. Pischalnikov, P. S. Prieto, R. Rechenmacher, J. Reid, K. R. Treptow, N. G. Wilcer, T. J. Zmuda. Proceedings of the Particle Accelerator Conference 2007, Albuquerque, New Mexico. WEPMN092

* Envelope and Multi-slit Emittance Measurements at Fermilab A0-Photoinjector and Comparison with Simulations

C. M. Bhat, J.-P. Carneiro, R. P. Fliller, G. M. Kazakevich, J. K. Santucci. Proceedings of the Particle Accelerator Conference 2007, Albuquerque, New Mexico. THPAS094

* A Copper 3.9 GHz TM110 Cavity for Emittance Exchange

T. W. Koeth, L. Bellantoni, D. A. Edwards, H. Edwards, R. P. Fliller. Proceedings of the Particle Accelerator Conference 2007, Albuquerque, New Mexico. THPAS079

* Emittance Exchange at FNPL

T. W. Koeth, R. Andrews, D. A. Edwards, H. Edwards, R. P. Fliller, P. Piot, M. J. Syphers. Proceedings of the LINAC Conference 2006, Knoxville, TN. TUP092

* A Compact, Normal-conducting, Polarized Electron, L-band PWT Photoinjector for the ILC

D. Yu, I. V. Bazarov, R. P. Fliller, Y. Luo, P. Piot, A. Smirnov. Proceedings of the LINAC Conference 2006, Knoxville, TN. TUP057

* Progress on a Cryogenically Cooled RF Gun Polarized Electron Source

R. P. Fliller, H. Edwards. Proceedings of the LINAC Conference 2006, Knoxville, TN. TUP040

* Beam Diffusion Measurements at RHIC

R. Fliller III, A. Drees, D. Gassner, G. McIntyre, S. Peggs, D. Trbojevic. Proceedings of the Particle Accelerator Conference 2003, Portland, OR. RPAG004

* New Results from Crystal Collimation at RHIC

R. Fliller III, V.M. Biryukov, Y. Chesnokov, A. Drees, D. Gassner, L. Hammons, G. McIntyre, S. Peggs, V. Terekov, D. Trbojevic. Proceedings of the Particle Accelerator Conference 2003, Portland, OR. TPPB034

* Crystal Collimation at RHIC

R. Fliller III, A. Drees, D. Gassner, L. Hammons, G.T. McIntyre, S. Peggs, D. Trbojevic, V.M. Biryukov, Yu.A. Chesnokov, V.I. Terekhov. Proceedings of the European Particle Accelerator Conference 2002 Paris, France. TUAGB002

* RHIC Collimator Performance

R. Fliller III, A. Drees, D. Gassner, G.T. McIntyre, D. Trbojevic. Proceedings of the European Particle Accelerator Conference 2002 Paris, France. TUDPO035

* Beam Diffusion Studies at RHIC

R. Fliller III, A. Drees, D. Gassner, G.T. McIntyre, S. Peggs, D. Trbojevic. Proceedings of the European Particle Accelerator Conference 2002 Paris, France. MOPLE067

* Isotope Shifts of the 7P1/2 Level in 209-211Francium

R.P. Fliller III, J.S. Grossman, C.T. Langlois, L.A. Orozco, M.R. Pearson, G.D. Sprouse. American Physical Society Division of Atomic, Molecular and Optical Physics Meeting, Storrs, CT. June 2000. Poster K4.04

# OTHER PUBLICATIONS

* Guidelines for NSLS-II Beamline Front End Design for Top Off Safety

Y. Li and R. Fliller. NSLS-II Technical Note 153. 2015

* Top-Off Safety Analysis and Requirement of Hazard Mitigation for NSLS-II Facility

Y. Li, S. Buda, R. Fliller, G. Ganetis, R. Heese, H.-C. Hseuh, S. Krinsky, PK Job, B. Parker, T. Shaftan, S. Sharma, Z. Xia, L.Yang. NSLS-II Document PS-R-ASD-RPT-DRV-001. 2014

* Predicted Effect of Linac Misalignments on Emittance Growth

R. P. Fliller III. NSLS-II Technical Note 146. 2014

* FLUKA Analysis of the Linac Fault Study Dose Rates

S. L. Kramer, F. Zafonte, R. Fliller, M. Breitfeller NSLS-II Technical Note 130. 2014

* Addendum to the Maximum Current of the Linac

R. Fliller III. NSLS-II Technical Note 129. 2014

* Maximum Current of the NSLS-II Linac

R. Fliller, F. Gao, GM Wang, J. Rose, T. Shaftan. NSLS-II Technical Note 105. 2013

* Local Radiation Shielding Design Methodology

S. L. Kramer, R. Fliller, Y. Li, PK Job. NSLS-II Technical Note 101. 2013

* Supplemental Shielding for the LBT-B1 Dipole

S. L. Kramer, R. Fliller, C. Spataro, M. Breitfeller. NSLS-II Technical Note 94. 2012

* Parameters and Tolerances for the Booster Dipole Power Supplies

T. Shaftan and R. Fliller. NSLS-II Technical Note 83. 2010

* A Model of the NSLS-II 200 MeV Linac

R. P. Fliller. NSLS-II Technical Note 62. 2009

* NSLS-II Booster Design

T. Shaftan, R. Fliller, R. Heese, J. Skaritka, J. Rose, S. Sharma, G. Ganetis, B. Dalesio, D. Hseuh. NSLS-II Technical Note 61. 2009

* Alternative Injection Schemes for the NSLS-II Storage Ring.

R. P. Fliller, G. Wang, R. Heese, B. Parker, T. Shaftan, E. Weihreter, F. Willeke. NSLS-II Technical Note 60. 2009

* Optimal Twiss Parameters for Injected Beam for Top-Off Injection.

R. P. Fliller. NSLS-II Technical Note 59. 2009

* NSLS-II Booster Injection Acceptance and some Relevant Tolerance Limits.

R. P. Fliller. NSLS-II Technical Note 54. 2009

* Proposal for Experiments and Upgrades at the A0 Photoinejector.

M. Church, L. Bellantoni, N. Eddy, D. Edwards, H. Edwards, R. Fiorito, R. Fliller, E. Harms, G. Kazakevich, T. Koeth, A. Lumpkin, S. Nagaitsev, P. Piot, J. Ruan, V. Scarpine, B. Soyars, Y-E. Sun, M. Syphers, R.Thurman-Keup, M. Wendt. Fermilab Beams Document 3248-v1. November 2008

* Some Thoughts on Multislit Emittance Measurements in the Presence of Dispersion and Extraction of the Beam Matrix.

R. P. Fliller. Fermilab Beams Document 3052-v1. March 2008

* General Solutions for a Transverse to Longitudinal Emittance Exchange Beamline.

R. P. Fliller. Fermilab Beams Document 2553-v2. November 2007

* The Crystal Collimation System of the Relativistic Heavy Ion Collider.

R. P. Fliller III. Ph. D. Thesis. Collider-Accelerator Dept. AP Note 170. September 2004

* Beam Profile Measurements and PIN Diode Calibration Using the RHIC Collimators.

R. P. Fliller III, A. Drees. Collider-Accelerator Dept. AP Note 132. January 2004