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Research

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- Design studies of Neutrino Factories and Muon Colliders

Publications

Journals

- J. S. Berg *et al.* [ISS Accelerator Working Group], “Accelerator design concept for future neutrino facilities,” arXiv:0802.4023 [physics.acc-ph].
- R. B. Palmer, J. S. Berg, R. C. Fernow, J. C. Gallardo and H. G. Kirk, “Open Cavity Solutions to the rf in Magnetic Field Problem,” AIP Conf. Proc. **981**, 306 (2008) [arXiv:0711.4793 [physics.acc-ph]].
- C. Ankenbrandt *et al.*, “Muon Collider Task Force Report,”
- R. B. Palmer *et al.*, “A Complete Scheme of Ionization Cooling for a Muon Collider,” *In the Proceedings of Particle Accelerator Conference (PAC 07), Albuquerque, New Mexico, 25-29 Jun 2007*, pp 3193 [arXiv:0711.4275 [physics.acc-ph]].
- R. B. Palmer *et al.*, “A Complete Scheme for a Muon Collider,” arXiv:0709.2864 [physics.acc-ph].
- A. Hershcovitch *et al.*, “Plasma Lens for Us Based Super Neutrino Beam at Either FNAL or BNL,” *In the Proceedings of Particle Accelerator Conference (PAC 07), Albuquerque, New Mexico, 25-29 Jun 2007*, pp 3184 [arXiv:0707.1685 [physics.acc-ph]].
- V. Barger *et al.*, “Report of the US long baseline neutrino experiment study,” arXiv:0705.4396 [hep-ph].
- W. T. Weng, J. S. Berg, R. C. Fernow, J. C. Gallardo, H. G. Kirk, N. Simos and S. J. Brooks, “Choice of proton driver parameters for a neutrino factory,” *Prepared for European Particle Accelerator Conference (EPAC 06), Edinburgh, Scotland, 26-30 Jun 2006*
- J. S. Berg *et al.*, “A cost-effective design for a neutrino factory,” Phys. Rev. ST Accel. Beams **9**, 011001 (2006) [arXiv:physics/0511092].
- R. Palmer *et al.* [Neutrino Factory and Muon Collider Collaboration], “The RFOFO ionization cooling ring for muons,” Phys. Rev. ST Accel. Beams **8**, 061003 (2005) [arXiv:physics/0504098].
- R. C. Fernow, J. S. Berg, J. C. Gallardo, H. G. Kirk, R. B. Palmer, D. Neuffer and K. Paul, Nucl. Phys. Proc. Suppl. **149**, 274 (2005).

- M. V. Diwan *et al.*, Phys. Rev. D **68**, 012002 (2003) [arXiv:hep-ph/0303081].
- M. M. Alsharoa *et al.* [Muon Collider/Neutrino Factory Collaboration], Phys. Rev. ST Accel. Beams **6**, 081001 (2003) [arXiv:hep-ex/0207031].
- W. T. Weng *et al.*, J. Phys. G **29**, 1735 (2003).
- R. C. Fornow, J. C. Gallardo and Y. Fukui, Nucl. Instrum. Meth. A **472**, 541 (2000).
- C. M. Ankenbrandt *et al.*, Phys. Rev. ST Accel. Beams **2**, 081001 (1999) [arXiv:physics/9901022].
- R. B. Palmer and J. C. Gallardo, NATO Adv. Study Inst. Ser. B Phys. **365**, 183 (1997) [arXiv:physics/9702017].
- R. B. Palmer, J. C. Gallardo, A. Tollestrup and A. Sessler, Sci. Cult. **13**, 39 (1998).
- R. Palmer *et al.*, Nucl. Phys. Proc. Suppl. **51A**, 61 (1996) [arXiv:acc-phys/9604001].
- A. Garren, E. Courant, J. C. Gallardo, R. Palmer, D. Trbojevic, C. Johnstone and K. Y. Ng, Nucl. Phys. Proc. Suppl. **51A**, 148 (1996) [arXiv:acc-phys/9604003].
- J. C. Gallardo and R. B. Palmer, Nucl. Phys. Proc. Suppl. **51A**, 168 (1996) [arXiv:acc-phys/9602003].
- R. C. Fornow and J. C. Gallardo, Phys. Rev. E **52**, 1039 (1995) [arXiv:acc-phys/9503003].
- J. C. Gallardo and R. B. Palmer, Nucl. Instrum. Meth. A **304**, 345 (1991).
- J. C. Gallardo and R. B. Palmer, IEEE J. Quant. Electron. **26**, 1328 (1990).
- R. B. Palmer, J. C. Gallardo and D. V. Neuffer, AIP Conf. Proc. **352**, 208 (1996).
- R. Palmer, D. V. Neuffer and J. C. Gallardo, AIP Conf. Proc. **335**, 635 (1995).
- D. Trbojevic *et al.*, AIP Conf. Proc. **367**, 269 (1995).
- R. B. Palmer, R. Fornow, J. C. Gallardo, Y. Y. Lee, Y. Torun, D. Neuffer and D. Winn, *High-energy high-luminosity mu+ mu- collider design, Prepared for 16th IEEE Particle Accelerator Conference (PAC 95) and International Conference on High-energy Accelerators (IUPAP), Dallas, Texas, 1-5 May 1995*
- R. B. Palmer, J. C. Gallardo, R. C. Fornow, Y. Torun, D. Neuffer and D. Winn, AIP Conf. Proc. **352**, 108 (1996) [arXiv:acc-phys/9503004].
- R. B. Palmer *et al.*, ICFA Beam Dyn. Newslett. **8**, 27 (1995) [arXiv:acc-phys/9503002].
- R. C. Fornow, J. C. Gallardo, Y. Y. Lee, R. B. Palmer, D. R. Winn, D. V. Neuffer and Y. Torun, AIP Conf. Proc. **352**, 134 (1996).
- R. C. Fornow and J. C. Gallardo, AIP Conf. Proc. **352**, 170 (1996).
- R. C. Fornow, J. C. Gallardo, R. B. Palmer, D. R. Winn and D. V. Neuffer, AIP Conf. Proc. **352**, 155 (1996).
- R. B. Palmer *et al.*, AIP Conf. Proc. **372**, 3 (1996) [arXiv:acc-phys/9602001].
- R. C. Fornow *et al.*, *Possible demonstration of ionization cooling using absorbers in a solenoidal field, Prepared for 9th ICFA Workshop on Advanced Beam Dynamics and Technology Issues for mu+ mu- Colliders (MUMU 95), Montauk, New York, 15-20 Oct 1995*
- K. Hirata *et al.*, AIP Conf. Proc. **372**, 330 (1996).
- J. C. Gallardo, Proceedings, 9th Advanced ICFA Beam Dynamics Workshop, Montauk, USA, October 15-20, 1995
- J. C. Gallardo, *In the Proceedings of 1996 DPF / DPB Summer Study on New Directions for High-Energy Physics (Snowmass 96), Snowmass, Colorado, 25 June - 12 July 1996, pp ACC027.*
- R. Palmer *et al.*, *Prepared for 1996 DPF / DPB Summer Study on New Directions for High Energy Physics (Snowmass 96), Snowmass, Colorado, 25 June - 12 July 1996.*
- R. B. Palmer and J. C. Gallardo, *Future Colliders*, arXiv:physics/9610008.
- R. Palmer and J. C. Gallardo, *High luminosity muon collider design*, arXiv:physics/9610009.

- R. B. Palmer and J. C. Gallardo, *Prepared for The 25th INS International Symposium on Nuclear and Particle Physics with High-Intensity Proton Accelerators, Tokyo, Japan, 3-6 Dec 1996*
- R. B. Palmer and J. C. Gallardo, *High-energy colliders*, arXiv:physics/9702016.
- D. Trbojevic, R. B. Palmer, E. D. Courant, J. C. Gallardo, S. Peggs, S. Tepikian and K. Y. Ng, *Prepared for 17th IEEE Particle Accelerator Conference (PAC 97): Accelerator Science, Technology and Applications, Vancouver, British Columbia, Canada, 12-16 May 1997*
- Y. Zhao, R. Palmer, R. Fernow, J. C. Gallardo and H. Kirk, *Prepared for 17th IEEE Particle Accelerator Conference (PAC 97): Accelerator Science, Technology and Applications, Vancouver, British Columbia, Canada, 12-16 May 1997*
- J. C. Gallardo, R. C. Fernow and R. B. Palmer, AIP Conf. Proc. **441**, 282 (1998) [arXiv:physics/9802002].
- R. C. Fernow, J. C. Gallardo, H. G. Kirk and R. B. Palmer, AIP Conf. Proc. **472**, 233 (1999).

- C. M. Ankenbrandt *et al.*, FERMILAB-PROPOSAL-0904
- R. Palmer, A. Sessler, A. Tollestrup and J. C. Gallardo [Muon Collider Collaboration], *Prepared for 6th European Particle Accelerator Conference (EPAC 98), Stockholm, Sweden, 22-26 June 1998*
- R. Palmer, A. Sessler, A. Tollestrup and J. C. Gallardo [Muon Collider Collaboration], arXiv:physics/9807006.
- J. C. Gallardo, FERMILAB-MUCOOL-015
- J. C. Gallardo *et al.*, FERMILAB-CONF-99-080-E *Given at IEEE Particle Accelerator Conference (PAC 99), New York, NY, 29 Mar - 2 Apr 1999*
- D. Ayres *et al.* [Neutrino Factory and Muon Collider Collaboration], *Expression of interest for R & D towards a neutrino factory based on a storage ring and a muon collider*, arXiv:physics/9911009.
- N. Holtkamp *et al.*, *A feasibility study of a neutrino source based on a muon storage ring*, SLAC-REPRINT-2000-054
- C. Albright *et al.*, *Physics at a neutrino factory*, arXiv:hep-ex/0008064.
- J. C. Gallardo, A. M. Sessler and J. Wurtele, *Prepared for 18th Advanced ICFA Beam Dynamics Workshop on Quantum Aspects of Beam Physics, Capri, Italy, 15-20 Oct 2000*
- S. Ozaki *et al.*, *Feasibility study 2 of a muon-based neutrino source*, BNL-52623
- R. Raja *et al.*, in *Proc. of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001)* ed. N. Graf, arXiv:hep-ex/0108041.
- J. C. Gallardo *et al.*, PAC-2001-TPPH161 *Presented at IEEE Particle Accelerator Conference (PAC2001), Chicago, Illinois, 18-22 June 2001*
- R. Fernow, J. C. Gallardo and Y. Fukui, PAC-2001-WPAH021 *Presented at IEEE Particle Accelerator Conference (PAC2001), Chicago, Illinois, 18-22 June 2001*
- J. C. Gallardo, R. Palmer and H. Wang, PAC-2001-RPAH078 *Presented at IEEE Particle Accelerator Conference (PAC2001), Chicago, Illinois, 18-22 June 2001*
- J. C. Gallardo, S. Kahn, R. Palmer, P. Thieberger, R. Weggel and K. McDonald, PAC-2001-ROPB010 *Presented at IEEE Particle Accelerator Conference (PAC2001), Chicago, Illinois, 18-22 June 2001*
- R. Fernow, J. C. Gallardo, R. Palmer and P. Lebrun, PAC-2001-FPAH079 *Presented at IEEE Particle Accelerator Conference (PAC2001), Chicago, Illinois, 18-22 June 2001*
- D. Beavis *et al.*, arXiv:hep-ex/0205040.
- M. Diwan *et al.*, arXiv:hep-ex/0211001.

- G. Gregoire *et al.*, <http://www.slac.stanford.edu/spires/find/hep/www?irn=5446163>
- M. Diwan *et al.*, arXiv:hep-ex/0305105.
- R. C. Fernow, J. S. Berg, J. C. Gallardo and R. B. Palmer, *To appear in the proceedings of Particle Accelerator Conference (PAC 03), Portland, Oregon, 12-16 May 2003.*
- J. S. Berg, R. C. Fernow, J. C. Gallardo and R. B. Palmer, AIP Conf. Proc. **721**, 391 (2004).
- C. Albright *et al.* [Neutrino Factory/Muon Collider Collaboration], arXiv:physics/0411123.
- R. C. Fernow and J. C. Gallardo, PAC-2005-TPPP040 *Prepared for Particle Accelerator Conference (PAC 05), Knoxville, Tennessee, 16-20 May 2005*
- J. C. Gallardo, J. S. Berg, R. C. Fernow, H. G. Kirk, R. Palmer, D. V. Neuffer and K. Paul, PAC-2005-TPPP047 *Prepared for Particle Accelerator Conference (PAC 05), Knoxville, Tennessee, 16-20 May 2005*