

## Appendix: Ph.D. Theses on Accelerator Physics at the Tevatron

1. M. Syphers (1987), University of Illinois, Chicago  
*An improved 8-GeV beam transport system for the Fermi National Accelerator Laboratory.*
2. Leonid Sagalovsky (1989), University of Illinois in Urbana, Champagne  
*Third-order charged particle beam optics.*
3. Nikilitsa Merminga (1989), University of Michigan  
*A study of nonlinear dynamics in the Tevatron.*
4. Xiao-Qing Wang (1991), Illinois Institute of Technology  
*A study of longitudinal coherent effects of unbunched beams near transition in the Fermilab accumulator.*
5. Peilei Zhang (1991), Houston University  
*A study of tunes near integer values in hadron colliders.*
6. Steven Stahl (1991), Northwestern University  
*Beam dynamics in the Fermilab booster in the presence of space charge.*
7. John Palkovic (1991), University of Wisconsin  
*Gabor lens focusing and emittance growth in a low-energy proton beam.*
8. Katherine Harkay (1993), Purdue University  
*A study of longitudinal instabilities and emittance growth in the Fermilab booster synchrotron.*
9. Ping Zhou (1993), Northwestern University  
*A study of ion trapping and instability in the Fermilab anti-proton accumulator.*
10. Todd Satogata (1993), Northwestern University  
*Nonlinear resonance islands and modulational effects in a proton synchrotron.*
11. William Graves (1994), University of Wisconsin  
*Measurement of transverse emittance in the Fermilab booster.*
12. Xian-Ping Lu (1994), University of Colorado  
*Study of a longitudinal coupled bunch instability in the Fermilab main ring.*
13. Ping-Jung Chou (1995), Northwestern University  
*The nature of transverse beam instabilities at injection in the Fermilab main ring.*

14. Donna Siergiej (1995), University of New Mexico  
*Beam-beam interaction effects in the Fermilab collider.*
15. Linda Spentzouris (1996), Northwestern University  
*Direct measurement of diffusion rates in high energy synchrotrons using longitudinal beam echoes.*
16. David Olivieri (1996), University of Massachusetts  
*A dynamic momentum compaction factor lattice for improvements to stochastic cooling in storage rings.*
17. Oleg Krivosheev (1998), Tomsk Polytechnic University, Russia  
*Object oriented integrated system for beam induced energy deposition simulations for Tevatron and upgrades.*
18. Christina Dimopoulou (2001), CERN  
*Experimental tests of a high perveance gun at Fermilab.*
19. Kip Bishofberger (2005), UCLA  
*Tevatron beam-beam compensation.*
20. Ludovic Nicolas (2005), University of Glasgow, UK  
*Radiation environment simulations at the Tevatron, studies of the beam profile and measurement of the Bc meson mass.*
21. Sergei Seletskiy (2005), Rochester University  
*Attainment of electron beam suitable for medium energy electron cooling.*
22. Robert Zwaska (2005), University of Texas, Austin  
*Accelerator systems and instrumentation for the NuMI neutrino beam.*
23. Xiaobiao Huang (2005), Indiana University  
*Beam diagnosis and lattice modeling of the Fermilab booster.*
24. Pavel Snopok (2007), Michigan State University  
*Capture of a large phase space beam.*
25. Phil Yoon (2007), University of Rochester  
*Error-induced beam degradation in Fermilab's accelerators.*
26. Alexei Poklonsky (2008), Michigan State University  
*Optimization and control of Tevatron parameters.*
27. Ryoichi Miyamoto (2008), University of Texas, Austin  
*AC dipole diagnostics of Fermilab's Tevatron.*
28. Valentina Previtali (2010), University of Milano, Italy  
*Performance evaluation of a crystal enhanced collimation system for the LHC.*
29. Dan McCarron (2010), Illinois Institute of Technology  
*Measurement and simulations of intensity dependent effects in the Fermilab booster synchrotron.*

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