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Ph.D. Disser. Supervised	Tyler DeMan, in progress, 2018{present. Elliott Tammaro, "Kaluza-Klein Reduction of Pure Gravity and its Implications for K3 Surface Compactifications," BMC (April 2014); now Assistant Professor at Chestnut Hill College.
Senior Theses Supervised	Saif Kuraishi, "Instanton Methods in Quantum Mechanics," HC (May 2020). Srividya Suresh, "Hawking Radiation as Quantum Tunneling," BMC (May 2013). Nadia Bolis, "Extremal Black Holes and Black Branes," BMC (March 2009). Shirley Chen, "Simulation and Analysis of Decay Channels in a Supersymmetric Model with R-Parity Violation," BMC (May 2008).
Doctoral Dissertation Committees	Olivia McAuley (in progress, prelim exams 2020). Dan White, BMC Math (in progress, prelim exams 2019). Andy Clark (in progress, prelim exams 2019). Carlos Cartagena-Sanchez (in progress, prelim exams 2018). Lindsay Dever, BMC Math (in progres, prelim exams 2018). Bashkim Kokona, BMC Chemistry (Ph.D. 2018). Samantha Pezzimenti, BMC Math (prelim exams 2015). Ziva Myer, BMC Math (prelim exams 2013, Ph.D. 2017). Laura Mansfield, BMC Math (prelim exams 2011). Donald Fahey, BMC Physics (prelim exams 2010, Ph.D. 2014). Elliott Tammaro, BMC Physics (prelim exams 2010, Ph.D. 2014). Melanie Lott, BMC Physics (prelim exams 2010, Ph.D. 2012). Jonas Swann, BMC Math (Ph.D. 2010). Robert Richter, U Penn Physics (Ph.D. 2008). Peng Gao, U Penn Physics (Ph.D. 2007).
Masters Committees	Kristen Recine, BMC Physics (M.A. oral exam November 2013). Vincent Gregoric, BMC Physics (M.A. oral exam October 2013). Donald Fahey, BMC Physics (M.A. oral exam April 2009). Joseph Croman, BMC Physics (M.A. oral exam April 2008).
Summer Research Supervised (last 5 years listed)	Tyler DeMan, Ellie Hughes, Shiksha Pandey, Catie Robinson, Shiksha Pandey (Summer 2021). Tyler DeMan, Genevieve Love, Shiksha Pandey, Avalon Vanis (Summer 2020). Tyler DeMan, Faryal Khan, Shiksha Pandey, Hurum Tohfa (Summer 2019). Clare Allsopp-Shiner, Leyla Fahim, Carrie Fillion (Summer 2016).

Courses Taught

Phys 101-1, Introductory Physics I (postbaccalaureate section),  
Phys 101-2, Introductory Physics I (undergraduate section),  
Phys 101/121 Lab, Introductory Physics Laboratory (fall),  
Phys 102/122 Lab, Introductory Physics Laboratory (spring),  
Phys 133/163, The Big Bang,  
Phys 201 Lab, Analog and Digital Electronics Laboratory,  
Phys 214, Waves and Quantum Mechanics,  
Phys 310, Modern Physics (Spring)

Pedagogy

Participation  
in  
Professional  
Meetings

Workshop on N=1 Compactifications, Fields Institute, Toronto, 2005.

DPF 2004, UC Riverside, 2004.

Simons Workshop in Mathematics and Physics, SUNY Stony Brook, 2004.

Onassis Lectures in Physics, Heraklion, Greece, 2004.

Strings 2004, Paris, 2004.

Superstring Cosmology Program, KITP, Santa Barbara, 2003.

Time and String Theory, ACP, Aspen, 2003.

Strings 2003, Kyoto, 2003.

Mathematics in String and Field Theory, ICTP, Trieste, 2003.

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Research  
Talks

Abelian Fibrations, String Junctions and

University of Southern California, 30 October 2002.

Torus Orientifolds and the  $N=2$  Web of Vacua,  
University of California, Los Angeles, 18 March 2003.

Moduli Stabilization from Fluxes,  
Institut d'Études Scientifiques de Cargèse, 9 July 2002,  
Division of Particles and Fields 2002, William & Mary, 25 May 2002.

Moduli Stabilization and SUSY Changing Bubbles from Fluxes,  
Stanford University, 13 June 2002.

D-Branes and Fluxes for IIB on  $T^6/Z_2$ ,  
Stanford Linear Accelerator Center, 26 October 2001.

Poster Session General Kaluza-Klein Reduction, Strings 2014, Princeton, 23 June 2014.

Pedagogical Lectures Nongeometric String Theory Compactifications and Generalized Complex Geometry,  
RTG Graduate Summer School Geometry of Quantum Fields and Strings,  
University of Pennsylvania, 8-20 June 2009.

Panel discussion Applying for Jobs at Colleges and Universities,  
Panel Discussion with Henriette Elvang and Vanessa Sih,  
Life after Graduate School Series,  
University of Michigan, Ann Arbor, 8 April 2010.

## Publications

- Preprints M. Schulz, A class of Calabi-Yau 3-folds as manifolds of  $SU(2)$  structure, arXiv:1206.4027 [hep-th].
- E. Tammara and M. Schulz, M-theory/IIA duality and K3 in the Gibbons-Hawking approximation, arXiv:1206.1070 [hep-th].
- Peer-Reviewed Articles M. Schulz, T-folds, Doubled Geometry, and the  $SU(2)$  WZW Model, JHEP 1206, 158 (2012); arXiv:1106.6291 [hep-th].
- R. Donagi, P. Gao and M. Schulz, Abelian Surface Fibrations, String Junctions and Flux/Geometry Duality, JHEP 0904, 119 (2009); arXiv:0810.5195 [hep-th].
- A. Lawrence, T. Sander, M. Schulz and B. Wecht, Torsion and Soft Supersymmetry Breaking, JHEP 0807, 042 (2008); arXiv:0711.4787 [hep-th].
- M. Cvetič, T. Liu and M. Schulz, Twisting  $K3 \times T^2$  Orbifolds, JHEP 0709, 092 (2007); hep-th/0701204.
- A. Lawrence, M. Schulz and B. Wecht, D-Branes in Nongeometric Backgrounds, JHEP 0607 038 (2006); hep-th/0602025.
- M. Schulz, Calabi-Yau Duals of Torus Orientifolds, JHEP 0605, 023 (2006); hep-th/0412270.
- M. Schulz, Superstring Orientifolds with Torsion:  $O5$  Orientifolds of Torus Fibrations and their Massless Spectra, Fortsch. Phys. 52, 963 (2004); hep-th/0406001.
- S. Kachru, M. Schulz, P. Tripathy and S. Trivedi New Supersymmetric String Compactifications, JHEP 0303, 061 (2003); hep-th/0211182.
- S. Kachru, X. Liu, M. Schulz, and S. Trivedi, Supersymmetry Changing Bubbles in String Theory, JHEP 0305, 014 (2003); hep-th/0205108.
- S. Kachru, M. Schulz, and S. Trivedi, Moduli Stabilization from Fluxes in a Simple IIB Orientifold, JHEP 0310, 007 (2003); hep-th/0201028.
- S. Kachru, M. Schulz, and E. Silverstein, Bounds on Curved Domain Walls in 5D Gravity, Phys. Rev. D 62 085003 (2000); hep-th/0002121.
- S. Kachru, M. Schulz, and E. Silverstein, Self-Tuning Flat Domain Walls in 5D Gravity and String Theory, Phys. Rev. D 62 045021 (2000); hep-th/0001206.
- E. Karat and M. Schulz, Self-Adjoint Extensions of the Pauli Equation in the Presence of a Magnetic Monopole, Annals Phys. 254 11-24 (1997); quant-ph/9602013.
- Proceedings M. Schulz, "Moduli Stabilization from Fluxes," in Cargèse 2002, Progress in String, Field and Particle Theory, Kluwer Academic Publishers, Boston (2003); arXiv:0810.5197 [hep-th].
- Dissertation M. Schulz, Domain Walls, Branes, and Fluxes in String Theory: New Ideas on the Cosmological Constant Problem, Moduli Stabilization, and Vacuum Connectedness, UMI-30-67940-mc (microfiche), 2002, Ph.D. Thesis.