

Philip ‘Flip’ Tanedo

CONTACT INFORMATION	117 Clark Hall Physics Department, Cornell University Ithaca, NY 14850, USA	Office: +1 607 255 5725 e-mail: pt267@cornell.edu http://www.lepp.cornell.edu/~pt267/
RESEARCH INTERESTS	I am interested in particle phenomenology beyond the standard model, ranging from collider and astroparticle signatures to model-building. My current focus is the construction of viable metastable supersymmetry breaking models without finely-tuned gaugino masses. My recent projects have also focused on the structure of loop-induced flavor changing neutral currents in generic Randall-Sundrum and supersymmetric models.	
EDUCATION	Cornell University , Ithaca, New York <i>Doctor of Philosophy</i> • Expected graduation date: May 2013 • Advisor: Csaba Csáki August 2008 – present	
	Durham University (Josephine Butler College), Durham, United Kingdom <i>Master of Science by Research</i> • Dissertation Topic: “Complete MSSM one-loop predictions for $B_s \rightarrow \mu^+\mu^-$ at the LHC” • Advisors: Nigel Glover, Athanasios Dedes July 2007 – June 2008	
	Cambridge University (Trinity College), Cambridge, United Kingdom <i>Certificate of Advanced Study in Mathematics with Merit</i> • Essay Topic: “Massive Neutrinos in Warped Extra Dimensions” • Essay Reader: Benjamin Allanach October 2006 – June 2007	
	Stanford University , Stanford, California <i>Bachelor of Science in Physics and Mathematics with Honors</i> • Honors Topic: “Bino dark matter in the Split-Supersymmetric Higgs Resonance Region” • Advisers: Scott Thomas, Steven Shenker, Savas Dimopoulos (honors) October 2002 – June 2006	
HONORS AND AWARDS	National Science Foundation Graduate Research Fellowship, 2006 - present Marshall Scholarship, 2006-2008 UC Berkeley Chancellor’s Fellowship, 2006-2008 (declined) Harvard University Purcell Fellowship, 2006-2007 (declined) Barry M. Goldwater Scholarship, 2005-2006	
SELECTED PUBLICATIONS	C. Csáki, Y. Grossman, P. Tanedo, Y. Tsai, “Warped Penguins”, <i>In Preparation</i> , 2009. A. Dedes, J. Rosiek, P. Tanedo, “Complete one-loop predictions for $B_s \rightarrow \mu^+\mu^-$ in the MSSM”, <i>Phys. Rev. D</i> 79 , 055006 (2009). S. E. Sebastian, P. Tanedo, P. A. Goddard, S.-C. Lee, A. Wilson, S. Kim, S. Cox, R. D. McDonald, S. Hill, N. Harrison, C. D. Batista, and I. R. Fisher, “Role of anisotropy in the spin-dimer compound $\text{BaCuSi}_2\text{O}_6$ ”, <i>Phys. Rev. B</i> 74 , 180401 (2006). S. E. Sebastian, D. Yin, P. Tanedo, G.A. Jorge, N. Harrison, M. Jaime, Y. Mozharivskvj, G. Miller, J. Krzystek, S. A. Zvyagin, I.R. Fisher, “Field Behavior of the Spin Gap Compound $\text{Sr}_2\text{Cu}(\text{BO}_3)_2$ ”, <i>Phys. Rev. B</i> 71 , 212405 (2005). P. Tanedo, “Modeling of the transverse linear optics of a charged particle storage ring”, SLAC-TN-03-016 (2003).	

SELECTED TALKS “Kinky Kinematics with MT2”, Cornell BSM Journal Club (October 2009)
 “Warped Penguins from an Extra Dimension”, UC Irvine Joint Particle Seminar (October 2009)
 “The Physics of Angels and Demons”, Cornell Institute for Physics Teachers (July 2009)
 “The Birds and the Bs: A Case Study of $B_s \rightarrow \mu\mu$ in the MSSM”, Theoretical Advanced Studies Institute Student Talk (June 2009), Cornell Theory Group Seminar (February 2009)
 “Theory vs. Experiment in our generation”, Young Researchers in Mathematics Conference (Cambridge, April 2009), Durham CPT Student Seminar (April 2009)
 “New Physics at CDF?”, Cornell Collider Phenomenology Journal Club (November 2008)
 “Split-SUSY: how I learned to stop worrying and love fine-tuning”, Cornell Theory Student Seminar (July 2008), Durham CPT Student Seminar (π Day, 2008), Cambridge Part III Lent Seminar (March 2007)
 “Quantum penguins hint at the nature of matter and antimatter”, Marshall Aid Commemoration Commission Colloquium (May 2008)
 “Complete one-loop predictions for $B_s \rightarrow \mu\mu$ ”, IOP HEPP Meeting (Lancaster, April 2008), University of Ioannina Division of Theoretical Physics Journal Club (November 2007), UK LHCb Annual Workshop (Durham, September 2007)
 “Gravitons for Fun and Profit”, Cambridge Part III Michaelmas Seminar (2006)

WORKSHOPS, SCHOOLS, CONFERENCES Theoretical Advanced Studies Institute, University of Colorado at Boulder (1-26 June 2009)
 International Workshop on SUSY Breaking, Durham University IPPP (20-24 April 2009)
 Young Researchers in Mathematics (Beyond Part III), Cambridge University (16-18 April 2009)
 ICTP School on the Gauge/Gravity Correspondence, Abdus Salam International Centre for Theoretical Physics (Trieste, 19-30 May 2008)
 Marshall Colloquium, Association of Commonwealth Universities (London, May 2008)
 5th Part III Return Conference, Cambridge University (16-17 April 2008)
 IOP HEPP Group Annual Meeting, University of Lancaster (31 March - 2 April 2008)
 Higgs-Maxwell Workshop: EWSB, Royal Society of Edinburgh (13 February 2008)
 Young Experimentalists and Theorists Institute (7-9 January 2008)
 Annual Theory Meeting, Durham University IPPP (17-19 December 2007)
 UK LHCb Annual Meeting, Durham University IPPP (24-26 December 2007)
 Cosener’s Forum on Heavy Flavor Physics, Cosener’s House Abingdon (21-22 June 2007)

TEACHING EXPERIENCE **UC Berkeley**, Berkeley, California
Course Grader, Physics 137A: Quantum Mechanics **Summer 2006**

Stanford University, Stanford, California
Teaching Assistant, Physics 121: Electrodynamics II **Spring 2006**
Course Grader, Physics 161: Cosmology **Spring 2006**
Course Assistant, The Elementary Particles and their Fundamental Interactions **Summer 2004**
 Teaching and residential assistant for Sophomore College course.

OUTREACH **Cornell University**, Ithaca, New York
Blogger, US/LHC Blogs **Summer 2009 - present**
 Regular contributor to the NSF-supported US/LHC physics blogs at <http://blogs.uslhc.us>.
Lecturer, The Physics of *Angels & Demons* **July 2009**
 Lecture for high school teachers at the Cornell Institute for Physics Teachers.

Stanford University, Stanford, California

Lecturer, Stanford ESP *SPLASH!* course

Winter 2005

Developed and presented a weekend lecture on “The Allure of Particle Physics: Neutrinos, Quarks, and the Higgs Boson” for high school students.

Lecturer, Stanford ESP *SHEP* course

Summer 2004

Designed and taught a five weekend course on quantum mechanics for high school students through the Stanford High School Enrichment Project.

SERVICE

Cornell University, Ithaca, New York

Member, Physics Department Colloquium Committee

2009 – 2010

Organizer, BSM Journal Club

2009 – 2010

Organizer, Collider Physics Journal Club

Fall 2008

Stanford University, Stanford, California

Member, Physics Department Undergraduate Studies Committee

Winter 2005

HOBBIES

Jogging, swimming, basketball, cooking.