

Brookhaven Forum 2007: New Horizons at Colliders

May 30-June 1, 2007

Brookhaven National Laboratory, Upton, NY

(All Talks in Building 510A)

MAY 30, 2007		
PLENARY PROGRAM , Large Seminar Room, Chair: W. Marciano		
8:45—9:00 a.m.	<i>Director's Welcome/Introduction to the Forum</i>	Sam Aronson/ Organizers
9:00—9:50 a.m.	<i>Challenges for the Discovery of New Physics at the LHC</i>	M. Peskin
9:50—10:40 a.m.	<i>Higgs Physics at the LHC</i>	D. Zeppenfeld
10:40—11:10 a.m.	Coffee Break , Large Seminar Lounge	
11:10—12:00 p.m.	<i>The Physics Program of the ILC</i>	J. Hewett
12:00—2:00 p.m.	Lunch	

2:00--3:20 p.m.	PARALLEL SESSION I: (Talks are 15' + 5' minutes)	
The Higgs Location: Small Seminar Room Chair: H. Logan	Warped Models Location: 2-84 Chair: T. Rizzo	Colliders and Cosmology Location: 2-160 Chair: Tim Tait
A. Kharchilava: <i>Selected Results on Electroweak, Top and Higgs Searches From Tevatron</i>	E. Ponton: <i>Light KK States in Randall-Sundrum Scenarios</i>	S. Westerhoff: <i>The Highest Energy Cosmic Rays</i>
L. Reina: <i>Probing Higgs Yukawa Couplings at Hadron Colliders</i>	A. Atre: <i>Collider Signatures of Warped Extra Dimensions</i>	H. Baer: <i>Models of SUSY Dark Matter</i>
T. Figy: <i>NLO QCD Corrections for Higgs Production via VBF in Association of Three Jets at the LHC</i>	S. Gopalakrishna: <i>LHC Signatures of Warped Space Models</i>	P. Fox: <i>LHC and Dark Matter Signals of Improved Naturalness</i>
A. Martin: <i>Higgs Cascade Decays to 2-gamma and 2-jet at the LHC</i>	M. Schwartz: <i>The Peculiar Prophetic Power of AdS/QCD</i>	E. Lunghi: <i>Dark Matter, Flavor and Collider Signatures of GUT Inspired MSSM</i>
3:20--3:50 p.m.	Coffee Break	Large Seminar Lounge
3:50--5:10 p.m.	PARALLEL SESSION II:	
Tops and Compositeness Location: Small Seminar Room Chair: D. Rainwater	ILC Physics Location: 2-84 Chair: E. Ponton	Supersymmetric Models Location: 2-160 Chair: H. Baer
T. Tait: <i>Top-flavor Baryogenesis</i>	H. Logan: <i>Theory Uncertainties in ILC Higgs Measurements</i>	R. Kitano: <i>Sweet Spot Supersymmetry</i>
B. Lillie: <i>Searching for New Physics With High p_T Top Quarks</i>	C. Berger: <i>The ILC and the LHC Inverse Problem</i>	D. Morrissey: <i>Higgs-Exempt No-Scale Supersymmetry</i>
K. Agashe: <i>Signals of Composite Higgs in Top and W/Z Physics</i>	T. Rizzo: <i>Solving the LHC Inverse Problem for SUSY at the ILC</i>	D. Shih: <i>R-Symmetry Breaking in Oraifeartaigh Models</i>
J. Virzi: <i>Probing TeV Resonances With Top Pairs</i>	J. Kile: <i>Fermionic Operators and Higgs Production at the Linear Collider</i>	T. Roy: <i>Messages From the Hidden Sector and Super Particle Masses</i>
5:30--6:30 p.m.	RECEPTION	Large Seminar Lounge
7:00--8:00 p.m.	BSA Distinguished Lecture: <i>Einstein's Biggest Blunder?: A Cosmic Mystery Story</i>	L. Krauss Berkner Hall (Building 488), Auditorium

MAY 31, 2007**PLENARY PROGRAM**, Large Seminar Room, Chair: A. De Roeck

9:00—9:50 a.m.	<i>Naturalness and Electroweak Symmetry Breaking</i>	Y. Nomura
9:50—10:40 a.m.	<i>Supersymmetry and Its Breaking</i>	N. Seiberg
10:40—11:10 a.m.	Coffee Break , Large Seminar Lounge	
11:10—12:00 p.m.	<i>New Horizons in the Universe</i>	L. Krauss
12:00—2:00 p.m.	Lunch	

2:00--3:20 p.m.	PARALLEL SESSION I:	
Tops and QCD Location: Small Seminar Room Chair: B. Lillie	Supersymmetric Phenomenology Location: 2-84 Chair: R. Kitano	Alternative New Physics Location: 2-160 Chair: E. Lunghi
M. Papucci: <i>Top Flavor Violation: From the B-factories to the LHC</i>	K. Kiers: <i>CP Violation in Supersymmetric Particle Decays</i>	S. Bar-Shalom: <i>Probing Heavy Majorana Neutrinos at High Energy Colliders</i>
W. Vogelsang: <i>Forward-Backward Asymmetry in Top Production</i>	B. Nelson: <i>Exotic SU(2)-Singlet Squarks and Quarks at the LHC</i>	M. Chen: <i>Discrete Family Symmetries for Quarks and Leptons</i>
C. Berger: <i>Bootstrapping One-Loop QCD Amplitudes</i>	G. Shaughnessy: <i>Gluino Mass Measurement at the LHC</i>	G. Kribs: <i>The Return of the Fourth Generation</i>
S. Fleming: <i>Top Quark Mass From Top Jets</i>		D. Rainwater: <i>Same-sign electroweak charged particle production at LHC</i>
3:20--3:50 p.m.	Coffee Break	Large Seminar Lounge
3:50--5:10 p.m.	PARALLEL SESSION II:	
Experiments and Analysis Location: Small Seminar Room Chair: L. Reina	Higgsless Physics Location: 2-84 Chair: K. Agashe	Cosmology and Astroparticle Physics Location: 2-160 Chair: B. Nelson
B. Knuteson: <i>Global Analysis of Tevatron Run II Data</i>	M. Kurachi: <i>Three Site Higgsless Model</i>	L. Everett: <i>Supersymmetry, Dark Matter, and Dark Energy</i>
M. Narain: <i>Bread and Butter Physics at the Collider and Its Implications for Future Discoveries</i>	C. Jackson: <i>One-loop Corrections to the S and T Parameters in Higgsless Models</i>	G. Vasileiadis: <i>Results and Perspective for the HESS Experiment</i>
P. Schuster: <i>On-Shell Effective Theories for Searches and Signal Interpretation at the LHC</i>	M. Piai: <i>AdS-TC toward LHC</i>	R. Easter: <i>Constraining Inflation</i>
I. Yavin: <i>Spin determination in Hadron Colliders</i>		D. Chung: <i>Cosmology Connecting Dark Energy and Colliders</i>
6:30—8:30 p.m.	BANQUET	Berkner Hall Cafe (Bldg. 488)

JUNE 1, 2007**PLENARY PROGRAM**, Large Seminar Room, Chair: D. Zeppenfeld

9:00—9:50 a.m.	<i>Warped Extra Dimensions</i>	R. Sundrum
9:50—10:40 a.m.	<i>Prospects for Higgs Physics at the LHC</i>	K. Jakobs
10:40—11:10 a.m.	Coffee Break , Large Seminar Lounge	
11:10—12:00 p.m.	<i>Prospects for Physics Beyond the Standard Model at the LHC</i>	A. De Roeck

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