July 6-17, 2015 Perimeter Institute SCHEDULE

Monday, July 6, 2015

Time	Event	Location
8:30 – 9:00am	Registration	Reception
9:00 – 9:10am	Welcome to TRISEP 2015	Bob Room
9:10 – 10:30am	Michael Peskin , SLAC The Standard Model – Theory: <i>Electroweak Model</i>	Bob Room
10:30 – 11:00am	Coffee Break	Bistro – 1 st Floor
11:00 – 1:00pm	Mariangela Lisanti, Princeton University Astroparticle Physics – Theory: WIMP Paradigm	Bob Room
1:00 – 2:30pm	Lunch	Bistro – 2 nd Floor
2:30 – 3:45pm	Michael Peskin , SLAC The Standard Model – Theory: Parton Model	Bob Room
3:45 – 5:00pm	Mariangela Lisanti, Princeton University Astroparticle Physics – Theory: Dark Matter Distribution in MW	Bob Room
5:00 – 5:30pm	Coffee Break	Bistro – 1 st Floor
5:30 – 6:30pm	Exercises	Bob Room

Tuesday, July 7, 2015

Time	Event	Location
9:00 – 10:30am	Michael Peskin , SLAC The Standard Model – Theory: <i>Altarelli-Parisi evolution</i>	Bob Room
10:30 – 11:00am	Coffee Break	Bistro – 1 st Floor
10:30 – 1:00pm	Mariangela Lisanti, Princeton University Astroparticle Physics – Theory: Direct detection	Bob Room
1:00 – 2:30pm	Lunch	Bistro – 2 nd Floor

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2:30 – 3:45pm	Michael Peskin , SLAC The Standard Model – Theory: Events and processes @ the LHC	Bob Room
3:45 – 5:00pm	Mariangela Lisanti, Princeton University Astroparticle Physics – Theory: Indirect detection	Bob Room
5:00 – 5:30pm	Coffee Break	Bistro – 1 st Floor
5:30 – 6:30pm	Exercises	Bob Room

Wednesday, July 8, 2015

Time	Event	Location
9:00 – 10:15am	Michael Peskin , SLAC The Standard Model – Theory: The Goldstone Boson Equivalence Theorem	Bob Room
10:15 – 11:30am	Mathew Graham, SLAC Beyond the Standard Model – Experiment: Precision measurements	Bob Room
11:30 – 11:45	Coffee Break	Bistro – 1 st Floor
11:45 – 1:00pm	Mathew Graham, SLAC Beyond the Standard Model – Experiment: Hidden sectors and dark photons	Bob Room
1:00 – 2:30pm	Lunch	Bistro – 2 nd Floor
2:30 – 3:45pm	Michael Peskin , SLAC The Standard Model – Theory: <i>The Higgs boson</i>	Bob Room
3:45 – 5:00pm	Natalia Toro, Perimeter Institute Beyond the Standard Model – Theory: Introduction and Motivation	Bob Room
5:00 – 5:30pm	Coffee Break	Bistro – 1 st Floor
5:30 – 6:30pm	Exercises	Bob Room

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Thursday, July 9, 2015

Time	Event	Location
9:00 – 10:15am	Natalia Toro, Perimeter Institute Beyond the Standard Model – Theory: <i>Portals to new physics</i>	Bob Room
10:15 – 11:30am	Matias Zaldarriaga, Institute for Advanced Study Cosmology Theory: Inflation	Bob Room
11:30 – 11:45am	Coffee Break	Bistro – 1 st Floor
11:45 – 1:00pm	Mathew Graham, SLAC Beyond the Standard Model – Experiment: BSM in neutrino experiments	Bob Room
1:00 – 2:30pm	Lunch	Bistro – 2 nd Floor
2:30 – 3:45pm	Natalia Toro, Perimeter Institute Beyond the Standard Model – Theory: <i>Light dark matter</i>	Bob Room
3:45 – 5:00pm	Matias Zaldarriaga, Institute for Advanced Study Cosmology Theory: Inflation	Bob Room
5:00 – 5:05pm	Conference Photo	ТВА
5:05 – 6:30pm	Poster Session	Atrium
6:30pm Onwards	BBQ	Bistro – 1 st Floor

Friday, July 10, 2015

Time	Event	Location
9:00 – 10:15am	Natalia Toro, Perimeter Institute Beyond the Standard Model – Theory: <i>BSM at high energy 1</i>	Bob Room
10:15 – 11:30am	Matias Zaldarriaga, Institute for Advanced Study Cosmology Theory: Large Scale Structure	Bob Room
11:30 – 11:45am	Coffee Break	Bistro – 1 st Floor

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11:45 – 1:00pm	Mathew Graham, SLAC Beyond the Standard Model – Experiment: Other low energy experiments	Bob Room
1:00 – 2:30pm	Lunch	Bistro – 2 nd Floor
2:30 – 3:45pm	Natalia Toro, Perimeter Institute Beyond the Standard Model – Theory: BSM at high energy 2	Bob Room
3:45 – 5:00pm	Matias Zaldarriaga, Institute for Advanced Study Cosmology Theory: Large Scale Structure	Bob Room
5:00 – 5:30pm	Coffee Break	Bistro – 1 st Floor
5:30 – 6:30pm	Exercises	Bob Room

Monday, July 13, 2015

Time	Event	Location
9:00 – 10:15am	Song He, Perimeter Institute Amplitudes: Introduction and Motivation	Bob Room
10:15 – 11:30am	Simona Murgia, University of California, Irvine Astroparticle Physics – Observations: <i>Cosmic rays</i>	Bob Room
11:30 – 11:45am	Coffee Break	Bistro – 1 st Floor
11:45 – 1:00pm	Gil Holder, McGill University Cosmology – Observations: Observables in an expanding universe	Bob Room
1:00 – 2:30pm	Lunch	Bistro – 2 nd Floor
2:30 – 3:45pm	David Kosower, Saclay Amplitudes <i>Overview of Jet Physics</i>	Bob Room
3:45 – 5:00pm	Simona Murgia, University of California, Irvine Astroparticle Physics – Observations: Dark matter	Bob Room
5:00 – 5:30pm	Coffee Break	Bistro – 1 st Floor

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5:30 – 6:30pm	Exercises	Bob Room	

Tuesday, July 14, 2015

Time	Event	Location
9:00 – 10:15am	Song He, Perimeter Institute Amplitudes: Amplitudes in Yang-Mills	Bob Room
10:15 – 11:30am	Simona Murgia, University of California, Irvine Astroparticle Physics – Observations: <i>Gamma rays and neutrinos</i>	Bob Room
11:30 – 11:45am	Coffee Break	Bistro – 1 st Floor
11:45 – 1:00pm	Gil Holder, McGill University Cosmology – Observations: CMB temperature and polarization	Bob Room
1:00 – 2:30pm	Lunch	Bistro – 2 nd Floor
2:30 – 3:45pm	David Kosower, Saclay Amplitudes <i>Spinor Helicity</i>	Bob Room
3:45 – 5:00pm	Simona Murgia, University of California, Irvine Astroparticle Physics – Observations: <i>Charged particles</i>	Bob Room
5:00 – 5:30pm	Coffee Break	Bistro – 1 st Floor
5:30 – 6:30pm	Exercises	Bob Room

Wednesday, July 15, 2015

Time	Event	Location
9:00 – 10:15am	Song He, Perimeter Institute Amplitudes: <i>Reformulation of Feynman diagrams</i>	Bob Room
10:15 – 11:30am	Pierre Savard, University of Toronto The Standard Model Experiment: Detectors	Bob Room

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11:30 – 11:45am	Coffee Break	Bistro – 1 st Floor
11:45 – 1:00pm	Gil Holder, McGill University Cosmology – Observations: <i>Galaxy clustering</i>	Bob Room
1:00 – 2:30pm	Lunch	Bistro – 2 nd Floor
2:30 – 3:45pm	David Kosower, Saclay Amplitudes <i>BCFW Recursion</i>	Bob Room
3:45 – 5:00pm	Gil Holder, McGill University Cosmology – Observations: <i>Gravitational lensing</i>	Bob Room
5:00 – 5:30pm	Coffee Break	Bistro – 1 st Floor
5:30 – 6:30pm	Exercises	Bob Room

Thursday, July 16, 2015

Time	Event	Location
9:00 – 10:30am	Song He, Perimeter Institute Amplitudes: Soft Theorems	Bob Room
10:30 – 11:00am	Coffee Break	Bistro – 1 st Floor
11:00 – 1:00pm	Pierre Savard, University of Toronto The Standard Model Experiment: Experimental Tools	Bob Room
1:00 – 2:30pm	Lunch	Bistro – 2 nd Floor
2:30 – 3:45pm	David Kosower, Saclay Amplitudes <i>Unitarity</i>	Bob Room
3:45 – 5:00pm	Pierre Savard, University of Toronto The Standard Model Experiment: Electroweak Tests	Bob Room
5:00 – 5:30pm	Coffee Break	Bistro – 1 st Floor
5:30 – 6:30pm	Exercises	Bob Room

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Friday, July 17, 2015

Time	Event	Location
9:00 – 10:30am	Song He, Perimeter Institute Amplitudes: Applications	Bob Room
10:30 – 11:00am	Coffee Break	Bistro – 1 st Floor
11:00 – 1:00pm	Pierre Savard, University of Toronto The Standard Model Experiment: <i>Higgs Discovery</i>	Bob Ro
1:00 – 2:30pm	Lunch	Bistro – 2 nd Floor
2:30 – 3:45pm	David Kosower, Saclay Amplitudes <i>Generalized Unitarity</i>	Bob Room
3:45 – 5:00pm	Pierre Savard, University of Toronto The Standard Model Experiment: Experimental QCD	Bob Room
5:00 – 5:30pm	Coffee Break	Bistro – 1 st Floor
5:30 – 6:30pm	Exercises	Bob Room