

## **INT Workshop, Heavy Flavor and Electromagnetic Probes in Heavy Ion Collisions**

September 29 – October 1, 2014

*(Part of the INT 14-3 Program)*

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### **Monday, September 29, 2014**

*ALL TALKS WILL BE IN ROOM C-520*

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| <b>9:00am</b>  | <b>Welcome</b>  | David B. Kaplan, INT Director                  |
| <b>9:05am</b>  | <b>"Quarkonium Suppression in Nuclear Collisions: An Update"</b>  | Helmut Satz, Univ Bielefeld                    |
| <b>9:45am</b>  | <b>"Transport Coefficients, Potentials and Spectral Functions From the Lattice"</b>   | Chris Allton, Swansea Univ                     |
| <b>10:30am</b> | <b>Break</b>  |  |
| <b>11:00am</b> | <b>"Recent Lattice NRQCD Studies of Bottomonium at Non-Zero Temperature"</b>  | Seyong Kim, Sejong University                  |
| <b>11:45am</b> | <b>"Heavy Quark Master Equations of the Lindblad Form"</b>  | Yukinao Akamatsu, KMI, Nagoya Univ             |
| <b>12:30pm</b> | <b>Lunch</b>  |  |
| <b>2:30pm</b>  | <b>"Electromagnetic Probes of QGP"</b>  | Elena Bratkovskaya, Univ Frankfurt             |
| <b>3:15pm</b>  | <b>"Dimuon Production in Pb+Pb Collisions at 20-160 AGeV at the CERN SPS: Mapping the QCD Phase Diagram in the Transition Region with a New NA60-like Experiment"</b> | Gianluca Usai, University of Cagliari and INFN |
| <b>4:00pm</b>  | <b>Break</b>  |  |
| <b>4:30pm</b>  | <b>"Heavy Flavor in Medium Momentum Evolution: Langevin vs. Boltzmann"</b>  | Santosh Kumar Das, Univ of Catania             |
| <b>5:15pm</b>  | <b>"What Can We Learn From Heavy Mesons About the QGP?"</b>   | Joerg Aichelin, SUBATECH                       |
| <b>6:00pm</b>  | <b>Dinner (on your own)</b>   |  |

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**Tuesday, September 30, 2014**

*ALL TALKS WILL BE IN ROOM C-520*

- 9:00am**      **"Open Heavy Flavor Probes of RHIC and LHC"**  
Andrea Dainese, Padova University
- 9:45am**      **"Heavy Flavor Dynamics in QGP and Hadron Gas"**  
Shanshan Cao, LBL
- 10:30am**      **Break**
- 11:00am**      **"Completing the RHIC Quarkonium Program: sPHENIX"**  
Anthony Frawley, Florida State Univ
- 11:45am**      **"Quarkonium production in AA collisions at the LHC"**  
Roberta Arnaldi, INFN Torino
- 12:30pm**      **Lunch**
- 2:30pm**      **"Heavy Quarkonium Theory in the LHC Era"**  
Bernd Kniehl, University Hamburg
- 3:15pm**      **"Understanding  $J/\psi$  Production 40 Years After Its Discovery"**  
Jianwei Qiu, BNL
- 4:00pm**      **Break**
- 4:30pm**      **"Quarkonia in Heavy-Ion Collisions at the LHC: A CMS Perspective"**  
Torsten Dahms, TU Munich
- 5:15pm**      **"Recent Developments for Quarkonia in Medium"**  
Ralf Rapp, Texas A & M University
- 7:30pm**      **Dinner at Piatti**

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**Wednesday, October 1, 2014**

*ALL TALKS WILL BE IN ROOM C-520*

- 9:00am**      **"Quarkonia: The Search for a Coherent Framework"**  
Elena G. Ferreiro, University of Santiago de Compostela
- 9:45am**      **"Polyakov Loop Correlators and Cyclic Wilson Loop from Lattice QCD"**  
Johannes Weber, TU Munich
- 10:30am**     **"Higher-Dimensional Ridges in p-p and p-A Collisions from Saturation Physics"**  
Sener Ozonder, INT

*(End of Workshop)*

## INT Program INT 14-3

### Heavy Flavor and Electromagnetic Probes in Heavy Ion Collisions

September 29 – October 3, 2014

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Joerg Aichelin	SUBATECH	aichelin@subatech.in2p3.fr	9/21 – 9/30	C-431	5-3719
Yuki Akamatsu	KMI, Nagoya Univ	akamatsu@kmi.nagoya-u.ac.jp	9/14 – 10/6	C-420	5-9781
Chris Allton	Swansea Univ	c.allton@swan.ac.uk	9/20 – 10/4	C-424	5-9828
Francois Arleo	Ecole polytechnique	francois.arleo@cern.ch	10/1 – 10/10	C-418	
Roberta Araldi	INFN Torino	araldi@to.infn.it	9/27 – 10/11	B-468	5-9721
Elena Bratkovskaya	Univ Frankfurt	elena.bratkovskaya@th.physik.uni-Frankfurt.de	9/21 – 9/30	C-404	5-3971
Shanshan Cao	LBL	scao@lbl.gov	9/28 – 10/5	C-438	5-9830
Torsten Dahms	TU Munich	torsten.dahms@cern.ch	9/21 – 10/4	B-474	5-9775
Andrea Dainese	Padova University	andrea.dainese@pd.infn.it	9/28 – 10/2	C-420	5-9780
Santosh Das	Univ of Catania	dsantoshphy@gmail.com	9/20 – 10/4	C-424	5-9827
Elena G. Ferreira	University of Santiago de Compostela	elena@fpaxp1.usc.es	9/30 – 10/10	B-449	5-9726
Anthony Frawley	Florida State Univ	afrawley@fsu.edu	9/21 – 10/5	C-422	5-9779
Seyong Kim	Sejong University	skim@sejong.ac.kr	9/28 – 10/11	C-437	5-3620
Bernd Kniehl	University Hamburg	kniehl@desy.de	9/27 – 10/5	C-437	5-3620
Jean-Philippe Lansberg	Paris Sud U. - CNRS/IN2P3	lansberg@in2p3.fr	10/1 – 10/10	C-437	5-3620
Michael Leitch	Los Alamos National Laboratory	leitch@bnl.gov	9/28 – 10/4	C-438	5-9831
Sener Ozonder	INT	ozonder@uw.edu	9/15 – 10/10	C-423	5-9777
Peter Petreczky	BNL	petreczk@bnl.gov	9/16 – 9/30	C-411	5-3606
Jianwei Qui	BNL	jquiu@bnl.gov	9/25 – 10/7	B-449	5-9773
Ralf Rapp	Texas A & M University	RAPP@COMP.TAMU.EDU	9/28 – 10/4	B-474	5-9774
Helmut Satz	Univ Bielefeld	satz@physik.uni-bielefeld.de	9/18 – 9/29	B-449	5-9726
Enrico Scomparin	INFN Torino	scomparin@to.infn.it	9/27 – 10/11	C-422	5-9778
Gianluca Usai	University of Cagliari and INFN	gianluca.usai@ca.infn.it	9/28 – 10/3	B-468	5-9723
Ramona Vogt	LLNL and UC Davis	rlvogt@lbl.gov	9/14 – 10/11	C-411	5-3633
Johannes Weber	TU Munich	johannes.weber@tum.de	9/17 – 10/13	C-418	5-9776

## **INT Program INT 14-3**

### **Heavy Flavor and Electromagnetic Probes in Heavy Ion Collisions**

October 2 – October 3, 2014

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**Thursday, October 2, 2014**

**Room C-421, Physics/Astronomy Tower**

10:00am Andrea Dainese, Padova University

"The Physics Program of a Future Circular Collider"

11:15am Jean-Philippe Lansberg, Paris Sud U. - CNRS/IN2P3

"Quarkonium and Heavy Flavor Physics with AFTER"

**Friday, October 3, 2014**

**Room C-421, Physics/Astronomy Tower**

10:00am Francois Arleo, Ecole polytechnique

"Quarkonium suppression from coherent energy loss in p-A and A-A collisions"