

INT Workshop on Hadronic Light-by-Light Contribution to the Muon Anomaly (INT 11-47W)

Monday, February 28

Schedule / All Talks are in C-520

- 8 AM Registration, INT C-411D
- 9:00 – 9:15 Opening remarks: David Hertzog, University of Washington
Classic Models; Chair: Lee Roberts, Boston University
- 9:15 – 9:45 Lee Roberts, Boston University
Goals and Perspectives on the New $g-2$ Experiment
- 9:45 – 10:15 Hans Bijmans, Lund University
Constituent Quark Models and the ENJL Approach
- 10:15 – 11:15 COFFEE BREAK
- 11:15 – 11:45 Andreas Nyffeler, Harish-Chandra Research Institute
Chiral Approach and Resonance Dominance
- 11:45 – 12:15 Arkady Vainshtein, University of Minnesota
More recent developments and possible progress
- 12:15 – 2:00 LUNCH
- 2:00 – 4:00 Discussion; Chair: Eduardo de Rafael, Centre de Physique Theorique
Review morning models; discuss uncertainties, differences in approaches, possible short complementary contributions from others
- 4:00 - 4:30 COFFEE BREAK
- 4:30 Small Group Time

Tuesday, March 1

- Newer Techniques**; Chair: Andrzej Czarnecki, University of Alberta
- 9:00 – 9:30 Oscar Cata, IFIC/University of Valencia
Holographic QCD and HLbL
- 9:40 – 10:10 Deog Ki Hong, Pusan National University
Holographic models of QCD
- 10:10 – 10:40 COFFEE BREAK
- 10:40 – 11:10 Michael Ramsay-Musolf, University of Wisconsin-Madison
Implications of Chiral Symmetry (talk given remotely)
- 11:10 – 11:40 Richard Williams, Technical University Darmstadt
HLbL from a Dyson-Schwinger Approach
- 11:40 – 12:30 Discussion; Chair: William Bardeen
- 12:30 – 2:00 LUNCH
- Lattice**; Chair: Stephen Sharpe, University of Washington
- 2:00 – 2:30 Thomas Blum, University of Connecticut
QCD and QED on the lattice
- 2:40 – 3:10 Shoji Hashimoto, KEK
 $\pi \cdot \gamma \gamma$ / lattice
- 3:20 – 3:50 Karl Jansen, NIC/DESY
Hadronic Vacuum Polarization Contribution to $g-2$ from the Lattice
 $\pi \cdot \gamma \gamma$ / lattice
- 3:50 – 4:15 COFFEE BREAK
- 4:15 – 4:45 Andreas Kronfeld, Fermilab
The Exascale Era and What to Expect in 2016+

4:45 – 5:30 Discussion; Chair: Martin Savage, University of Washington

Wednesday, March 2

- Data & Models;** Chair: Kirill Melnikov, Johns Hopkins University
- 9:00 – 9:30 Fred Jegerlehner, DESY
What can data provide for HLbL ?
- 9:40 – 10:10 Dario Moricciani, INFN Roma
KLOE small angle tagger
- 10:10 – 10:40 Achim Denig, Johannes Gutenberg University Mainz
Babar and BES results and plans
- 10:40 – 11:00 COFFEE BREAK
- 11:10 – 11:40 Simon Eidelman, Budker Institute
Belle and KEDR results and plans
- 11:50 – 12:20 Henryk Czyz, University of Silesia
EKHARA: a Monte Carlo tool for $\gamma^* - \gamma^*$ physics - the status and prospects
- 12:30 – 2:00 LUNCH
- 2:00 – 5:30 BREAKOUT SESSIONS
. Group A: Models; Chair: Eduardo de Rafael (room C-421)
. Group B: Lattice; Chair: Thomas Blum (room C-441)
. Group C: Data; Chair: Fred Jegerlehner (room B-439)
- 19:00 Workshop dinner at Bilbao Restaurant.

Thursday, March 3

- Future;** Chair: Arkady Vainshtein
- 9:30 – 10:30 Open / Contributions to be announced
- 10:30 – 11:00 COFFEE BREAK
- 11:00 – 12:30 Models Discussion; Eduardo de Rafael
and possibly others
- 12:30 – 2:00 LUNCH
- 2:00 – 3:30 Data Discussion; Simon Eidelman and possibly others
- 3:30 – 4:00 COFFEE BREAK
- 4:00 – 5:30 Lattice Discussion; Thomas Blum and possibly others

Friday, March 4

- Writing Groups**
- 9:00 – 9:15 David Hertzog - Charge to the Groups
- 9:15 – 12:30 BREAKOUT SESSIONS
. Group A: Models; Chair: Eduardo de Rafael (room C-421)
. Group B: Lattice; Chair: Thomas Blum (room C-441)
. Group C: Data; Chair: Fred Jegerlehner (room B-439)
- 12:30 – 2:00 LUNCH
- 2:00 – 4:00 Eduardo de Rafael, Thomas Blum, Fred Jegerlehner
Toward a White Paper
- 4:00 ADJOURN