Muon g-2 Theory Initiative
Hadronic Light-by-Light working group workshop

Report of Contributions
Registration and Welcome

Monday, 12 March 2018 09:00 (30)
HLbL contribution to the muon g-2 on the lattice: overall strategy

Monday, 12 March 2018 09:30 (40)

Presenter(s): NYFFELER, Andreas (Mainz)
HLbL contribution to the muon $g$-2 on the lattice:
finite volume and discretization effects

Monday, 12 March 2018 10:10 (40)

Primary author(s) :  ASMUSSEN, Nils (Mainz)
Presenter(s) :  ASMUSSEN, Nils (Mainz)
HLbL contribution to the muon g-2 on the lattice: overall strategy

Monday, 12 March 2018 11:20 (20)

Presenter(s): JIN, Luchang (UConn/RBRC)
HLbL contribution to the muon g-2 on the lattice: finite volume effects

Primary author(s) : LEHNER, Christoph (BNL)
Presenter(s) : LEHNER, Christoph (BNL)
Updates on g-2 experiments

Monday, 12 March 2018 14:00 (40)

Primary author(s) : ROBERTS, Lee
Presenter(s) : ROBERTS, Lee
Models and HLbL: disconnected contributions and first steps towards finite volume corrections

Monday, 12 March 2018 14:40 (40)

Primary author(s) : BIJNENS, Johan
Presenter(s) : BIJNENS, Johan
Leading disconnected diagram and other disconnected diagrams

Monday, 12 March 2018 15:50 (40)

Primary author(s) : IZUBUCHI, Taku (BNL)
Presenter(s) : IZUBUCHI, Taku (BNL)
Discussion

Monday, 12 March 2018 16:30 (30)
Updates on g-2 experiments from J-PARC

Tuesday, 13 March 2018 09:00 (40)

Presenter(s): MIBE, Tsutomu (IPNS, KEK)
Dispersive approach to HLbL: overview

Tuesday, 13 March 2018 09:40 (60)

Presenter(s): STOFFER, Peter
Pion loop contributions from dispersive analysis

Colangelo et al
pi^0, eta, and eta’ transition form factors

Tuesday, 13 March 2018 11:10 (60)

Presenter(s) : KUBIS, Bastian
Light pseudoscalars contribution with Resonance Chiral Lagrangian including flavor breaking

*Tuesday, 13 March 2018 12:10 (40)*

**Presenter(s):** ROIG, Pablo
The neutral pion decay and the chiral anomaly on the lattice

Tuesday, 13 March 2018 14:20 (40)

Presenter(s) : HASHIMOTO, Shoji
Pion transition form factor on the lattice, pion-pole contribution to $g$-2

Tuesday, 13 March 2018 14:20 (40)

Presenter(s): GERARDIN, Antoine (Mainz)
Pion transition form factor from lattice QCD

Tuesday, 13 March 2018 15:20 (20)

Presenter(s): TU, Cheng (UConn)
Discussion

Tuesday, 13 March 2018 16:50 (30)
HLbL forward scattering sum rules on the lattice

Wednesday, 14 March 2018 11:00 (40)

Presenter(s) : GERARDIN, Antoine (Mainz)
Experimental input to HLbL from BESIII and A2/MAMI

Tuesday, 13 March 2018 16:10 (40)

Presenter(s): DENIG, Achim
Beyond one- and two-pion intermediate states

Wednesday, 14 March 2018 09:00 (40)

Presenter(s): HOFERICHTER, Martin
Light-by-light scattering sum rule overview and pion loop contribution

Wednesday, 14 March 2018 09:40 (60)

Presenter(s): DANILKIN, Igor
Light-by-light scattering sum rule

Wednesday, 14 March 2018 11:40 (40)

Presenter(s): DAI, Ling-Yun
Discussion

Wednesday, 14 March 2018 12:20 (20)
Schwinger’s sum rule

Wednesday, 14 March 2018 14:00 (40)

Presenter(s): PASCALUTSA, Vladimir
Determining the long-distance contribution to the HLbL portion of g-2 in position space from the pi0 pole

Tuesday, 13 March 2018 15:00 (20)

Presenter(s): CHRIST, Norman (Columbia University)
Discussion And Outlook for Whitepaper

Wednesday, 14 March 2018 14:40 (90)
HLbL contribution to the muon g-2 on the lattice: discretization errors

Monday, 12 March 2018 11:40 (30)

Presenter(s): BLUM, Thomas (UConn)