

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

Report of Contributions

Contribution ID : **1**

Type : **not specified**

Registration and Welcome

Monday, 12 March 2018 09:00 (30)

Contribution ID : **11**

Type : **not specified**

Dispersive approach to HLbL: overview

Tuesday, 13 March 2018 09:40 (60)

Presenter(s) : STOFFER, Peter

Contribution ID : 2

Type : **not specified**

HLbL contribution to the muon $g-2$ on the lattice: overall strategy

Monday, 12 March 2018 09:30 (40)

Presenter(s) : NYFFELER, Andreas (Mainz)

Contribution ID : 3

Type : **not specified**

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)

Contribution ID : 6

Type : **not specified**

Updates on g-2 experiments

Monday, 12 March 2018 14:00 (40)

Primary author(s) : ROBERTS, Lee

Presenter(s) : ROBERTS, Lee

Contribution ID : **9**

Type : **not specified**

Discussion

Monday, 12 March 2018 16:30 (30)

Contribution ID : **10**

Type : **not specified**

Updates on g-2 experiments from J-PARC

Tuesday, 13 March 2018 09:00 (40)

Presenter(s) : MIBE, Tsutomu (IPNS, KEK)

Contribution ID : **12**

Type : **not specified**

Pion loop contributions from dispersive analysis

Colangelo et al

Contribution ID : 14

Type : **not specified**

Light pseudoscalars contribution with Resonance Chiral Lagrangian including flavor breaking

Tuesday, 13 March 2018 12:10 (40)

Presenter(s) : ROIG, Pablo

Contribution ID : 15

Type : **not specified**

The neutral pion decay and the chiral anomaly on the lattice

Tuesday, 13 March 2018 14:20 (40)

Presenter(s) : HASHIMOTO, Shoji

Contribution ID : 16

Type : **not specified**

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)

Contribution ID : **18**

Type : **not specified**

Discussion

Tuesday, 13 March 2018 16:50 (30)

Contribution ID : **19**

Type : **not specified**

HLbL forward scattering sum rules on the lattice

Wednesday, 14 March 2018 11:00 (40)

Presenter(s) : GERARDIN, Antoine (Mainz)

Contribution ID : 22

Type : **not specified**

Light-by-light scattering sum rule overview and pion loop contribution

Wednesday, 14 March 2018 09:40 (60)

Presenter(s) : DANILKIN, Igor

Contribution ID : 21

Type : **not specified**

Beyond one- and two-pion intermediate states

Wednesday, 14 March 2018 09:00 (40)

Presenter(s) : HOFERICHTER, Martin

Contribution ID : 23

Type : **not specified**

Light-by-light scattering sum rule

Wednesday, 14 March 2018 11:40 (40)

Presenter(s) : DAI, Ling-Yun

Contribution ID : **28**

Type : **not specified**

HLbL contribution to the muon $g-2$ on the lattice: discretization errors

Monday, 12 March 2018 11:40 (30)

Presenter(s) : BLUM, Thomas (UConn)

Contribution ID : **24**

Type : **not specified**

Discussion

Wednesday, 14 March 2018 12:20 (20)

Contribution ID : 25

Type : **not specified**

Schwinger's sum rule

Wednesday, 14 March 2018 14:00 (40)

Presenter(s) : PASCALUTSA, Vladimir

Contribution ID : 27

Type : **not specified**

Discussion And Outlook for Whitepaper

Wednesday, 14 March 2018 14:40 (90)

Contribution ID : 5

Type : **not specified**

HLbL contribution to the muon g-2 on the lattice: finite volume effects

Monday, 12 March 2018 12:10 (30)

Primary author(s) : LEHNER, Christoph (BNL)

Presenter(s) : LEHNER, Christoph (BNL)

Contribution ID : 8

Type : **not specified**

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)

Contribution ID : 17

Type : **not specified**

Pion transition form factor from lattice QCD

Tuesday, 13 March 2018 15:20 (20)

Presenter(s) : TU, Cheng (UConn)

Contribution ID : 26

Type : **not specified**

Determining the long-distance contribution to the HLbL portion of $g-2$ in position space from the π^0 pole

Tuesday, 13 March 2018 15:00 (20)

Presenter(s) : CHRIST, Norman (Columbia University)

Contribution ID : **20**

Type : **not specified**

Experimental input to HLbL from BESIII and A2/MAMI

Tuesday, 13 March 2018 16:10 (40)

Presenter(s) : DENIG, Achim

Contribution ID : 4

Type : **not specified**

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)

Contribution ID : 13

Type : **not specified**

π^0 , η , and η' transition form factors

Tuesday, 13 March 2018 11:10 (60)

Presenter(s) : KUBIS, Bastian

Contribution ID : 7

Type : **not specified**

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