

**Muon  $g-2$  Theory Initiative  
Spring 2024 meeting**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Introduction

*Monday 15 April 2024 08:00 (5 minutes)*

short intro

**Presenter:** PORTELLI, Antonin

**Session Classification:** Lattice HVP

Contribution ID: 2

Type: **not specified**

## Executive Summary

*Monday 15 April 2024 08:05 (10 minutes)*

**Presenter:** GÉRARDIN, Antoine (CPT Marseille)

**Session Classification:** Lattice HVP

Contribution ID: 3

Type: **not specified**

## Total HVP

*Monday 15 April 2024 08:15 (15 minutes)*

**Presenter:** LELLOUCH, Laurent (CNRS and Aix-Marseille U.)

**Session Classification:** Lattice HVP

Contribution ID: 4

Type: **not specified**

## Intermediate Window

*Monday 15 April 2024 08:30 (15 minutes)*

**Presenter:** VAN DE WATER, Ruth (Fermilab)

**Session Classification:** Lattice HVP

Contribution ID: 5

Type: **not specified**

## Isospin symmetric HVP

*Monday 15 April 2024 08:45 (15 minutes)*

**Presenter:** GAGLIARDI, Giuseppe

**Session Classification:** Lattice HVP

Contribution ID: 6

Type: **not specified**

## Isospin breaking corrections

*Monday 15 April 2024 09:00 (15 minutes)*

**Presenter:** GUELPERS, Vera (University of Edinburgh)

**Session Classification:** Lattice HVP

Contribution ID: 7

Type: **not specified**

## Methodology

*Monday 15 April 2024 09:15 (15 minutes)*

**Presenter:** NEIL, Ethan

**Session Classification:** Lattice HVP



Contribution ID: 8

Type: **not specified**

## Further cross checks

*Monday 15 April 2024 09:30 (15 minutes)*

**Presenter:** MEYER, Harvey (Johannes Gutenberg University Mainz)

**Session Classification:** Lattice HVP

Contribution ID: 9

Type: **not specified**

## Further questions or comments

*Monday 15 April 2024 09:45 (10 minutes)*

**Session Classification:** Lattice HVP

Contribution ID: **10**

Type: **not specified**

## Closing remarks

*Monday 15 April 2024 09:55 (5 minutes)*

**Presenter:** GOTTLIEB, Steven

**Session Classification:** Lattice HVP

Contribution ID: 11

Type: **not specified**

## Short-distance in the Melnikov-Vainshtein corner

*Wednesday 17 April 2024 08:00 (20 minutes)*

**Presenters:** RODRIGUEZ-SANCHEZ, Antonio; BIJNENS, Johan (Lund University); HERMANSSON-TRUEDSSON, Nils

**Session Classification:** Analytic HLbL

Contribution ID: 12

Type: **not specified**

## **Dispersive analysis of the eta and eta' form-factors**

*Wednesday 17 April 2024 08:20 (20 minutes)*

**Presenter:** HOLZ, Simon

**Session Classification:** Analytic HLbL

Contribution ID: 13

Type: **not specified**

## **Axial-vector and tensor contributions in four- and three-point dispersive approaches**

*Wednesday 17 April 2024 08:40 (20 minutes)*

**Presenter:** STOFFER, Peter

**Session Classification:** Analytic HLbL

Contribution ID: 14

Type: **not specified**

## Prospects for new data relevant for the HLbL contribution

*Wednesday 17 April 2024 09:05 (20 minutes)*

**Presenter:** REDMER, Christoph

**Session Classification:** Analytic HLbL

Contribution ID: 15

Type: **not specified**

## Status of holographic results on HLbL

*Wednesday 17 April 2024 09:25 (20 minutes)*

**Presenter:** REBHAN, Anton

**Session Classification:** Analytic HLbL



Contribution ID: **16**

Type: **not specified**

## Introduction

*Monday 22 April 2024 07:00 (5 minutes)*

**Session Classification:** Data HVP

Contribution ID: 17

Type: **not specified**

## Monte Carlo generator comparison studies

*Monday 22 April 2024 07:05 (15 minutes)*

**Presenters:** SIGNER, Adrian; ULRICH, Yannick (Universitaet Bern (CH))

**Session Classification:** Data HVP

Contribution ID: **18**

Type: **not specified**

## **BaBar report**

*Monday 22 April 2024 09:10 (15 minutes)*

**Presenter:** ZHANG, Zhiqing Philippe (IJCLab, Orsay (FR))

**Session Classification:** Data HVP

Contribution ID: **19**

Type: **not specified**

## **BESIII report**

*Monday 22 April 2024 09:40 (15 minutes)*

**Presenter:** ALIBERTI, Riccardo (JGU Mainz (DE))

**Session Classification:** Data HVP

Contribution ID: **20**

Type: **not specified**

## **CMD2/3 report**

*Monday 22 April 2024 08:05 (15 minutes)*

**Presenter:** LOGASHENKO, Ivan (Novosibirsk)

**Session Classification:** Data HVP

Contribution ID: **21**

Type: **not specified**

## **SND report**

*Monday 22 April 2024 08:35 (15 minutes)*

**Presenter:** KUPICH, Andrey (Novosibirsk)

**Session Classification:** Data HVP

Contribution ID: 22

Type: **not specified**

## Belle II report

*Monday 22 April 2024 07:35 (15 minutes)*

**Presenter:** HAYASHII, Hisaki (Nara-WU)

**Session Classification:** Data HVP

Contribution ID: 23

Type: **not specified**

## General discussion

*Monday 22 April 2024 10:10 (20 minutes)*

**Session Classification:** Data HVP



Contribution ID: 24

Type: **not specified**

## Short break

*Monday 22 April 2024 09:05 (5 minutes)*

**Session Classification:** Data HVP

Contribution ID: 25

Type: **not specified**

## HLbL direct lattice calculation from RBC-UKQCD

*Tuesday 16 April 2024 08:00 (13 minutes)*

**Presenter:** JIN, Luchang

**Session Classification:** Lattice HLbL

Contribution ID: 26

Type: **not specified**

## HLbL direct lattice calculation from Mainz-CLS

*Tuesday 16 April 2024 08:13 (13 minutes)*

**Presenter:** MEYER, Harvey (Johannes Gutenberg University Mainz)

**Session Classification:** Lattice HLbL

Contribution ID: 27

Type: **not specified**

## HLbL direct lattice calculation from BMW

*Tuesday 16 April 2024 08:26 (13 minutes)*

**Presenter:** GÉRARDIN, Antoine (CPT Marseille)

**Session Classification:** Lattice HLbL

Contribution ID: 28

Type: **not specified**

## HLbL direct lattice calculation charm quark contribution

*Tuesday 16 April 2024 08:39 (13 minutes)*

**Presenter:** CHAO, En-Hung (JGU Mainz)

**Session Classification:** Lattice HLbL

Contribution ID: 29

Type: **not specified**

## **Pion ( $\eta$ , $\eta'$ ) pole contribution to HLbL from Mainz-CLS**

*Tuesday 16 April 2024 08:52 (13 minutes)*

**Presenter:** KOPONEN, Jonna (Universität Mainz)

**Session Classification:** Lattice HLbL

Contribution ID: **30**

Type: **not specified**

## **Pion ( $\eta$ , $\eta'$ ) pole contribution to HLbL from BMW**

*Tuesday 16 April 2024 09:05 (13 minutes)*

**Presenter:** GÉRARDIN, Antoine (CPT Marseille)

**Session Classification:** Lattice HLbL

Contribution ID: **31**

Type: **not specified**

## **Pion ( $\eta$ , $\eta'$ ) pole contribution to HLbL from ETM**

*Tuesday 16 April 2024 09:18 (13 minutes)*

**Presenter:** KANWAR, Gurtej (University of Bern)

**Session Classification:** Lattice HLbL



Contribution ID: 32

Type: **not specified**

## **Pion ( $\eta$ , $\eta'$ ) pole contribution to HLbL from RBC-UKQCD**

*Tuesday 16 April 2024 09:31 (13 minutes)*

**Presenter:** XU, Feng

**Session Classification:** Lattice HLbL

Contribution ID: 33

Type: **not specified**

## General discussion

*Tuesday 16 April 2024 09:44 (16 minutes)*

**Session Classification:** Lattice HLbL

Contribution ID: **34**

Type: **not specified**

## Discussion

*Wednesday 17 April 2024 09:45 (15 minutes)*

**Presenters:** Prof. REBHAN, Anton; BIJNENS, Johan (Lund University)

**Session Classification:** Analytic HLbL