

**5th Workstop / Thinkstart:  
Radiative corrections and  
Monte Carlo tools for Strong  
2020**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome & registration

*Monday, 5 June 2023 10:00 (30 minutes)*

**Presenter:** ULRICH, Yannick (University of Durham)

**Session Classification:** Welcome

Contribution ID: 2

Type: **not specified**

## Connection WP - processes

*Monday, 5 June 2023 10:50 (20 minutes)*

**Presenter:** SIGNER, Adrian (PSI - Paul Scherrer Institut)

**Session Classification:** General discussion

Contribution ID: 3

Type: **not specified**

## What do we want?

*Monday, 5 June 2023 10:35 (15 minutes)*

**Presenter:** SIGNER, Adrian (PSI - Paul Scherrer Institut)

**Session Classification:** General discussion

Contribution ID: 4

Type: **not specified**

## From Diagrams to Amplitudes

*Tuesday, 6 June 2023 09:00 (20 minutes)*

**Presenter:** BOBADILLA, William Torres

**Session Classification:** WP1 & 2: leptonic processes at NNLO & beyond

Contribution ID: 5

Type: **not specified**

## Towards N<sup>3</sup>LO: Overview

*Tuesday, 6 June 2023 14:00 (15 minutes)*

**Presenter:** ULRICH, Yannick (University of Durham)

**Session Classification:** WP1 & 2: leptonic processes at NNLO & beyond

Contribution ID: 6

Type: **not specified**

## QED resummation in Monte Carlos

*Wednesday, 7 June 2023 09:00 (1 hour)*

**Presenters:** CARLONI CALAME, Carlo (INFN, Pavia (IT)); SCHOENHERR, Marek (Durham University)

**Session Classification:** WP4: parton showers

Contribution ID: 7

Type: **not specified**

## Introduction; FsQED (10' + 10')

*Monday, 5 June 2023 14:00 (20 minutes)*

**Presenter:** STOFFER, Peter (UZH and PSI)

**Session Classification:** WP3: processes with hadrons



Contribution ID: 8

Type: **not specified**

## Taking stock & Summary

*Thursday, 8 June 2023 09:00 (1 hour)*

**Presenter:** SIGNER, Adrian (PSI - Paul Scherrer Institut)

**Session Classification:** General discussion

Contribution ID: 9

Type: **not specified**

## Homework assignments

*Friday, 9 June 2023 10:00 (1h 30m)*

**Session Classification:** General discussion

Contribution ID: **10**

Type: **not specified**

## Open discussion

*Monday, 5 June 2023 15:10 (20 minutes)*

**Session Classification:** WP3: processes with hadrons

Contribution ID: 11

Type: **not specified**

## Two-pion channel (10' + 15')

*Monday, 5 June 2023 14:20 (25 minutes)*

**Presenter:** COLANGELO, Gilberto (University of Bern)

**Session Classification:** WP3: processes with hadrons

Contribution ID: 12

Type: **not specified**

## Three-pion channel (10' + 15')

*Monday, 5 June 2023 14:45 (25 minutes)*

**Presenter:** KUBIS, Bastian (HISKP Uni Bonn)

**Session Classification:** WP3: processes with hadrons

Contribution ID: 13

Type: **not specified**

## Hadrons in Phokhara (10' + 15')

*Monday, 5 June 2023 16:00 (25 minutes)*

**Presenter:** CZYZ, Henryk

**Session Classification:** WP3: processes with hadrons

Contribution ID: 14

Type: **not specified**

## Comparison of different MCs (10' + 15')

*Monday, 5 June 2023 16:25 (25 minutes)*

**Presenter:** Dr IGNATOV, Fedor (University of Liverpool)

**Session Classification:** WP3: processes with hadrons

Contribution ID: 15

Type: **not specified**

## Open discussion

*Monday, 5 June 2023 16:50 (25 minutes)*

**Session Classification:** WP3: processes with hadrons



Contribution ID: 16

Type: **not specified**

## Perspectives on CMD-3 result

*Monday, 5 June 2023 17:15 (45 minutes)*

**Presenter:** Dr IGNATOV, Fedor (University of Liverpool)

**Session Classification:** WP3: processes with hadrons

Contribution ID: 17

Type: **not specified**

## From Amplitudes to Cross Sections

*Tuesday, 6 June 2023 09:20 (20 minutes)*

**Presenter:** ENGEL, Tim

**Session Classification:** WP1 & 2: leptonic processes at NNLO & beyond

Contribution ID: **18**

Type: **not specified**

## **From Cross Sections to Events: An amateur's guide**

*Tuesday, 6 June 2023 09:40 (20 minutes)*

**Presenter:** ULRICH, Yannick (University of Durham)

**Session Classification:** WP1 & 2: leptonic processes at NNLO & beyond

Contribution ID: **19**

Type: **not specified**

## **Dispersive Approach to Massive Two-Loop Amplitudes**

*Tuesday, 6 June 2023 10:30 (20 minutes)*

**Presenter:** GURGONE, Andrea (University of Pavia & INFN Pavia)

**Session Classification:** WP1 & 2: leptonic processes at NNLO & beyond

Contribution ID: 20

Type: **not specified**

## Towards N<sup>3</sup>LO: three-loop form factor

*Tuesday, 6 June 2023 14:15 (20 minutes)*

**Presenter:** LANGE, Fabian (KIT)

**Session Classification:** WP1 & 2: leptonic processes at NNLO & beyond

Contribution ID: 21

Type: **not specified**

## Towards N<sup>3</sup>LO: soft and collinear regions

*Tuesday, 6 June 2023 14:35 (20 minutes)*

**Presenter:** ENGEL, Tim

**Session Classification:** WP1 & 2: leptonic processes at NNLO & beyond

Contribution ID: 22

Type: **not specified**

## Other processes

*Monday, 5 June 2023 11:10 (20 minutes)*

**Presenter:** KUPSC, Andrzej

**Session Classification:** General discussion

Contribution ID: 23

Type: **not specified**

## Getting organised

*Monday, 5 June 2023 11:30 (30 minutes)*

**Session Classification:** General discussion