

**Analysis week**

# **Report of Contributions**

Contribution ID: 2

Type: **not specified**

## Welcoming

*Monday 24 July 2023 14:00 (15 minutes)*

Welcoming talk and description of the program and what to do, when. Also social events ;)

**Presenters:** MARTINI, Alberto (BELLE (BELLE Gruppe)); DIEHL, Johannes Hermann Bartolomaeus (UNI/EXP (Uni Hamburg, Institut für Experimentalphysik))

Contribution ID: 3

Type: **not specified**

## Clean analysis outline: how to

*Tuesday 25 July 2023 14:00 (1h 30m)*

External talk by CRESST/ COSINUS on how to streamline analysis flow

Contribution ID: 4

Type: **not specified**

## SA measurements

*Monday 24 July 2023 14:15 (1h 15m)*

**Presenter:** ARY DOS SANTOS GARCIA, Bernardo (Aachen)

**Session Classification:** SA + VNA measurements

Contribution ID: 5

Type: **not specified**

## VNA measurements

*Monday 24 July 2023 16:00 (1h 15m)*

**Presenters:** ARY DOS SANTOS GARCIA, Bernardo (Aachen); PABLO ARCILA MALDONADO, Juan (Munich)

**Session Classification:** SA + VNA measurements

Contribution ID: 7

Type: **not specified**

## COMSOL simulation

*Wednesday 26 July 2023 09:00 (1h 15m)*

**Presenter:** IVANOV, Anton (MPP)

Contribution ID: 9

Type: **not specified**

## Future plans and todo list

*Wednesday 26 July 2023 14:00 (1h 15m)*

**Presenter:** MAJOROVITS, Béla

Contribution ID: **11**

Type: **not specified**

## Paper writing

*Friday 28 July 2023 09:00 (1h 15m)*

**Presenter:** MARTINI, Alberto (BELLE (BELLE Gruppe))



Contribution ID: 12

Type: **not specified**

## Paper next steps: towards publication

*Friday 28 July 2023 10:45 (1h 15m)*

**Presenter:** MARTINI, Alberto (BELLE (BELLE Gruppe))

Contribution ID: 14

Type: **not specified**

## LEGEND data handling

*Monday 24 July 2023 17:30 (1 hour)*

Minutes available, the presentation has been done on Friday 21:

“HDF5 files: matrix like data stored. Each column is a vector of vectors.

Metadata: JSON files, used in cascade. So you can overwrite information of specific data taking periods. validity JSON are assigned to make some dataset valid, or outdated or just wrong.

To make the files being readable by everyone, goal is to press a button and make the analysis, they use Snakeman (Nextflow not optimal).

Dataflow: raw -> dsp-opt (filtering stage) -> dsp-digital signal process (extract key quantities) -> calib -> events

Data stored with a logic behind the name, so to include key info of the dataflow steps.

Snakemake is making new files from original ones, by passing through configuration files, telling Snakemake how exactly to make the new file.

Hands-on tutorial on how the whole data production system is structured.

Mistakes and bugs are tracked in the log given as output.”

Contribution ID: 15

Type: **not specified**

## ADS model

*Tuesday 25 July 2023 09:00 (3 hours)*

**Presenter:** LEPPLA-WEBER, David (ALPS (ALPS \_ Any Light Particle Search))

**Session Classification:** ADS session