

**Workshop on
"Quasi-Interactive Analysis of
Big Data with High
Throughput"**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Registration and technical formalities

Wednesday, 8 January 2025 09:15 (45 minutes)

Contribution ID: 2

Type: **not specified**

Welcome and useful information

Wednesday, 8 January 2025 14:30 (10 minutes)

Presenter: DIOTALEVI, Tommaso (Università e INFN, Bologna)

Session Classification: Afternoon Session

Contribution ID: 3

Type: **not specified**

Introduction to high rate analysis

Wednesday, 8 January 2025 14:40 (20 minutes)

Presenter: DIOTALEVI, Tommaso (Università e INFN, Bologna)

Session Classification: Afternoon Session

Contribution ID: 4

Type: **not specified**

Platforms for high rate analysis

Wednesday, 8 January 2025 15:00 (20 minutes)

Presenter: TEDESCHI, Tommaso (Università e INFN Perugia)

Session Classification: Afternoon Session

Contribution ID: 5

Type: **not specified**

Declarative approach in HEP with ROOT

Wednesday, 8 January 2025 15:40 (30 minutes)

Presenter: PADULANO, Vincenzo Eduardo (CERN)

Session Classification: Afternoon Session

Contribution ID: 6

Type: **not specified**

Python analysis with Scikit-HEP

Thursday, 9 January 2025 09:00 (40 minutes)

Presenter: VALSECCHI, Davide (Istituto Nazionale di Fisica Nucleare)

Session Classification: Morning session

Contribution ID: 7

Type: **not specified**

Closing remarks

Friday, 10 January 2025 12:45 (15 minutes)

Presenter: DIOTALEVI, Tommaso (Università e INFN, Bologna)

Contribution ID: 8

Type: **not specified**

Visit to Technopole

Wednesday, 8 January 2025 10:00 (3 hours)

Contribution ID: 9

Type: **not specified**

Wrap up of general session and next steps

Thursday, 9 January 2025 12:20 (20 minutes)

Presenter: DIOTALEVI, Tommaso (Università e INFN, Bologna)

Contribution ID: **10**

Type: **not specified**

Declarative framework for analysis definition and implementation

Wednesday, 8 January 2025 15:20 (20 minutes)

Presenter: MASTRANDREA, Paolo (Istituto Nazionale di Fisica Nucleare)

Session Classification: Afternoon Session

Contribution ID: **11**

Type: **not specified**

VBS searches in RDF

Thursday, 9 January 2025 14:20 (35 minutes)

Presenter: TEDESCHI, Tommaso (Università e INFN Perugia)

Session Classification: CMS session - real user experiences

Contribution ID: **12**

Type: **not specified**

Detector performance analyses with RDF

Thursday, 9 January 2025 14:55 (35 minutes)

Presenter: DIOTALEVI, Tommaso (Università e INFN, Bologna)

Session Classification: CMS session - real user experiences

Contribution ID: **13**

Type: **not specified**

Top searches with RDF

Thursday, 9 January 2025 15:30 (35 minutes)

Presenter: CAGNOTTA, Antimo (Istituto Nazionale di Fisica Nucleare)

Session Classification: CMS session - real user experiences

Contribution ID: 14

Type: **not specified**

Flavor physics use-case with RDF

Thursday, 9 January 2025 16:20 (35 minutes)

Presenter: SIMONE, Federica Maria (Istituto Nazionale di Fisica Nucleare)

Session Classification: CMS session - real user experiences

Contribution ID: 15

Type: **not specified**

CI/CD on analysis facility with mkShapesRDF

Thursday, 9 January 2025 16:55 (35 minutes)

Presenter: BARTOLINI, Matteo (INFN, Sez. Firenze)

Session Classification: CMS session - real user experiences

Contribution ID: **16**

Type: **not specified**

PocketCoffea example

Thursday, 9 January 2025 17:30 (35 minutes)

Presenters: VALSECCHI, Davide; TEDESCHI, Tommaso (Università e INFN Perugia)

Session Classification: CMS session - real user experiences

Contribution ID: 17

Type: **not specified**

Slot 4

Session Classification: CMS session - real user experiences

Contribution ID: **18**

Type: **not specified**

How to support advanced use cases: Technological highlights

Friday, 10 January 2025 09:10 (25 minutes)

Presenter: CIANGOTTINI, Diego (INFN Perugia)

Session Classification: CMS session - Analysis facility R&D & future perspectives

Contribution ID: **19**

Type: **not specified**

Advanced use cases: a work in progress activity

Friday, 10 January 2025 09:35 (25 minutes)

Presenter: GEROSA, Raffaele (Istituto Nazionale di Fisica Nucleare)

Session Classification: CMS session - Analysis facility R&D & future perspectives

Contribution ID: **20**

Type: **not specified**

Introducing the session

Friday, 10 January 2025 09:00 (10 minutes)

Presenter: SPIGA, Daniele (Istituto Nazionale di Fisica Nucleare)

Session Classification: CMS session - Analysis facility R&D & future perspectives

Contribution ID: 21

Type: **not specified**

Wrap-up & Open discussion

Friday, 10 January 2025 10:20 (2h 15m)

Presenter: SPIGA, Daniele (Istituto Nazionale di Fisica Nucleare)

Session Classification: CMS session - Analysis facility R&D & future perspectives

Contribution ID: 22

Type: **not specified**

Open Discussion

Session Classification: CMS session - Analysis facility R&D & future perspectives

Contribution ID: 23

Type: **not specified**

Hyperparameter Optimization for Deep Learning Models Using High Performance Computing

Thursday, 9 January 2025 14:00 (20 minutes)

Presenter: ANWAR, Muhammad Numan (Istituto Nazionale di Fisica Nucleare)

Session Classification: CMS session - real user experiences

Contribution ID: 24

Type: **not specified**

Hands on session

Wednesday, 8 January 2025 16:30 (2 hours)

Link to hub: <https://hub.131.154.98.51.myip.cloud.infn.it/>

Image to use: ghcr.io/icsc-spoke2-repo/jlab:wp5-alma9-highrate-v0.1.1

Presenters: PADULANO, Vincenzo Eduardo (CERN); DIOTALEVI, Tommaso (Università e INFN, Bologna); TEDESCHI, Tommaso (Università e INFN Perugia)

Session Classification: Hands on session

Contribution ID: 25

Type: **not specified**

Hands on session

Thursday, 9 January 2025 10:20 (2 hours)

Presenters: VALSECCHI, Davide; DIOTALEVI, Tommaso (Università e INFN, Bologna); TEDESCHI, Tommaso (Università e INFN Perugia)

Session Classification: Hands on session

Contribution ID: 26

Type: **not specified**

Social Dinner

Thursday, 9 January 2025 20:40 (1h 50m)

The dinner will take place at “Osteria Broccaindosso” (Via Broccaindosso, 7/a)

The dinner will be at the expense of the participants.