

# 5th Topical Workshop on Beam Diagnostics



## Report of Contributions

Contribution ID: 0

Type: **not specified**

## Welcome / Admin & Logistics

*Monday 23 March 2015 09:00 (10 minutes)*

**Presenter:** ASHWORTH, Rob (University of Liverpool)

Contribution ID: 1

Type: **not specified**

# Optical Diagnostics –State of the art and Future Trends

*Monday 23 March 2015 09:10 (30 minutes)*

**Presenter:** WELSCH, Carsten (Cockcroft Institute / University of Liverpool)

Contribution ID: 2

Type: **not specified**

## **Session 1. Beam profile and emittance measurements using optical radiation**

*Monday 23 March 2015 09:40 (30 minutes)*

**Presenter:** FIORITO, Ralph (University of Liverpool)

Contribution ID: 3

Type: **not specified**

## Contributed talk

Contribution ID: 4

Type: **not specified**

## **Laserwire Scanner R&D and Ultra-high Resolution OTR Measurements**

*Monday 23 March 2015 10:10 (30 minutes)*

**Presenter:** AUMEYR, Thomas (Royal Holloway, University of London)

Contribution ID: 5

Type: **not specified**

## **Experimental results of the laserwire emittance scanner at CERN's LINAC4 H-beam**

*Monday 23 March 2015 11:10 (30 minutes)*

**Presenter:** HOFMANN, Thomas (CERN)

Contribution ID: 6

Type: **not specified**

## High repetition rate laser wire scanner for high-current beams

*Monday 23 March 2015 11:40 (30 minutes)*

**Presenter:** JACOBSON, Bryce (RadiaBeam Technologies)



Contribution ID: 7

Type: **not specified**

## **Laser and ion beam diagnostics in laser ion sources**

*Monday 23 March 2015 12:10 (30 minutes)*

**Presenter:** LECESNE, Nathalie (Unknown)

Contribution ID: 8

Type: **not specified**

## **Session 2. Compton Backscattering: Theory and Sources**

*Monday 23 March 2015 15:00 (30 minutes)*

**Presenter:** VARIOLA, Alessandro (LNF)

Contribution ID: 9

Type: **not specified**

## **Recent progress on precision determination of electron beam energy with Compton backscattered laser photons at ANKA**

*Monday 23 March 2015 15:30 (30 minutes)*

**Presenter:** CHANG, Cheng (Karlsruhe Institute of Technology (KIT))

Contribution ID: **10**

Type: **not specified**

## **Diagnostics in laser wakefield accelerators**

*Monday 23 March 2015 14:30 (30 minutes)*

**Presenter:** DÖPP, Andreas (Centro de Laseres Pulsados)

Contribution ID: 11

Type: **not specified**

## **Numerical Proposal for the relativistic Kapitza-Dirac effect**

**Presenter:** MOKRANE, Hadj-Bachir (PSI)

Contribution ID: 12

Type: **not specified**

## **Session 3. Optical Techniques for Ultra-short Bunches**

*Monday 23 March 2015 17:00 (30 minutes)*

**Presenter:** ISCHEBECK, Rasmus (PSI)

Contribution ID: 13

Type: **not specified**

## Material Studies into EO Crystals

*Monday 23 March 2015 17:30 (30 minutes)*

**Presenters:** Prof. ABDOLVAND, Amin (University of Dundee); TYRK, Mateusz A. (University of Dundee)

Contribution ID: 14

Type: **not specified**

## **Beam Diagnostics of the SRF photoinjector at HZDR**

*Monday 23 March 2015 16:30 (30 minutes)*

**Presenter:** LU, Pengnan (HZDR)



Contribution ID: 15

Type: **not specified**

## **Bunch shape with electro optic technique-measurements on the limits**

*Tuesday 24 March 2015 09:30 (30 minutes)*

**Presenter:** BORYSENKO, Andrii (KIT)

Contribution ID: 16

Type: **not specified**

## **Electro-optic method for electron bunch diagnostic**

*Tuesday 24 March 2015 09:00 (30 minutes)*

**Presenter:** PAN, Rui (STFC Daresbury Laboratory (GB))

Contribution ID: 17

Type: **not specified**

## **HOM BPM at FLASH**

*Tuesday 24 March 2015 10:30 (30 minutes)*

**Presenter:** SHI, Liangliang (DESY / UMan)

Contribution ID: **18**

Type: **not specified**

## **Session 4. RF Techniques for Ultra-short Bunches**

*Tuesday 24 March 2015 10:00 (30 minutes)*

**Presenter:** CHIADRONI, Enrica (INFN - LNF)

Contribution ID: **19**

Type: **not specified**

## Contributed talk

Contribution ID: **20**

Type: **not specified**

## Contributed talk

Contribution ID: 21

Type: **not specified**

## **Session 5. Novel Sensors and Technologies: Laser self-mixing as a tool for position, vibration and velocity measurements**

*Tuesday 24 March 2015 11:30 (30 minutes)*

Laser self-mixing as a tool for position, vibration and velocity measurements

**Presenter:** SCAMARCIO, Gaetano (U Bari)

Contribution ID: 22

Type: **not specified**

## **Study of supersonic gas jet for beam profile monitoring**

*Tuesday 24 March 2015 12:00 (30 minutes)*

**Presenter:** ZHANG, Hao (University of Liverpool)



Contribution ID: 23

Type: **not specified**

## **Laser SM-based velocimetry on Liquids**

*Tuesday 24 March 2015 12:30 (30 minutes)*

**Presenter:** ALEXANDROVA, Alexandra (University of Liverpool/Cockcroft Institute)

Contribution ID: 24

Type: **not specified**

## **Analysis of SiPM response and performance in Beam Loss Monitoring applications**

*Tuesday 24 March 2015 14:30 (30 minutes)*

**Presenter:** VINOGRADOV, Sergey (University of Liverpool)

Contribution ID: 25

Type: **not specified**

## Customized instrumentation for large scale facilities

*Tuesday 24 March 2015 15:00 (30 minutes)*

**Presenter:** NOWACKI, Kamil (FOTON)

Contribution ID: 26

Type: **not specified**

## Contributed talk

Contribution ID: 27

Type: **not specified**

## Summary & Conclusion

*Tuesday 24 March 2015 15:30 (30 minutes)*

**Presenter:** WELSCH, Carsten (Cockcroft Institute / University of Liverpool)