# Programme for CAS course "Beam Instrumentation", 2-15 June 2018, Tuusula, Finland

| | 2.6. | 3.6 | 4.6. | 5.6. | 6.6. | 7.6. | 8.6 | 9.6 | 10.6 | 11.6 | 12.6. | 13.6. | 14.6. | 15.6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08:30 | Arrival day and registration | Opening | BD Requirements Overview/Measurement Principles III | Numerical methods, mathematical background I | Numerical methods, mathematical background II | Diagnostics Examples from CTF3 | Bunch Length Diagnostics II | Excursion | Diagnostics Examples from light sources | BPM systems II | Free | Collective Effects & its diagnostics I | Timing and Synchronization II | Departure day |
| | | local speaker/ H.Schmickler | G. Kube | L. Nadolski | L. Nadolski | F.Tecker | A. Gillespie | | K. Wittenburg | M.Wendt | | V. Kornilov | A. Gallo | |
| 09:30 | | BD Requirements Overview/Measure men t Principles I | Analog Electronics I | Tune, Chromaticity & Coupling Measurements | Diagnostics examples from HE colliders | Bunch Length Diagnostics I | Application of Lasers in Beam Instrumentation | | BPM systems I | Medical Applications Instrumentation & Diagnostics | Beam Loss Monitors | Timing and Synchronization I | Collective Effects & its diagnostics II | |
| | | G. Kube | J. Bellemann | R. Jones | R.Jones | A. Gillespie | S. Gibson | | M. Wendt | A. Peters | K. Wittenburg | A. Gallo | V. Kornilov | |
| 10:30 | | Coffee | | | | | | | Coffee | | | | | |
| 11:00 | | Transverse beam dynamics recap I | RF measurement techniques | Analog Electronics II | Linear Imperfections and Corrections I | Lasers (technologies & setups) | Transverse Profile Measurements I | | Transverse Profile Measurements II | Analog Digital Conversion | Schottky Diagnostics | Halo diagnostics | Diagnostic Needs for Wakefield Accelerator Experiments | |
| | | H.Schmickler | M. Wendt | J. Bellemann | J. Wenninger | S. Gibson | E. Bravin | | E. Bravin | M. Gasior | P. Kowina | K. Wittenburg | A. Cianchi | |
| 12:00 | | BD Requirements Overview/Measure men t Principles II | Video Cameras (signal generation and transmission) | Discussion/Q&A I | Introduction to Optics (basics, components, diffraction) | Linear Imperfections and Corrections II | Discussion/Q&A II | | Intensity Measurements | Emittance Measurements | Diagnostics Examples from lepton-linacs and FELs | Discussion/Q&A III | Transverse Feedbacks | |
| | | G. Kube | B. Walasek-Hoehne | H.Schmickler | S. Gibson | J. Wenninger | H.Schmickler | | A. Peters | E. Bravin | A. Cianchi | H.Schmickler | H.Schmickler | |
| 13:00 | | Lunch | | | | | | | Lunch | | | | | |
| 14:30 | | Transverse beam dynamics recap II | Block A-1 | Block A-4 | Free | Block B-1 | Block B-4 | | Block C-1 | Block C-4 | Free | Block D-1 | Block D-4 | |
| | | H.Schmickler | Course Team | Course Team | | Course Team | Course Team | | Course Team | Course Team | | Course Team | Course Team | |
| 15:30 | | Longitudinal beam dynamics recap | Block A-2 | Block A-5 | | Block B-2 | Block B-5 | | Block C-2 | Block C-5 | | Block D-2 | Block D-5 | |
| | | F. Tecker | Course Team | Course Team | | Course Team | Course Team | | Course Team | Course Team | | Course Team | Course Team | |
| 16:30 | | Coffee | Coffee | | | Coffee | | | Coffee | | | Coffee | | |
| 17:00 | | Transverse beam dynamics recap III | Block A-3 | Block A-6 | | Block B-3 | Block B-6 | | Block C-3 | Block C-6 | | Block D-3 | Block D-6 | |
| | | H.Schmickler | Course Team | Course Team | | Course Team | Course Team | | Course Team | Course Team | | Course Team | Course Team | |
| 18:00 | | OneS-OneM | | | | How the forest breathes | Poster session | | | Space and Space Weather | | | Closing | |
| | | All | | | | M. Kulmala | Organizer | | | M. Palmroth | | | | |
| 19:30 | | Dinner | | | Dinner in Helsinki | Dinner | | | | | | | | |
| 21:00 | | | | | | | | | | social event | | | | |