7th Low Emittance Rings Workshop 2018

Introduction

CERN, Geneva, 15-17 January 2018

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Low Emittance Rings workshop 2018

- Seventh general workshop of a series
  - CERN, Geneva, 01/2010
  - Heraklion, Crete, 10/2011
  - JAI, Oxford, 06/2013
  - INFN-LNF, Frascati, 09/2014
  - ESRF, Grenoble, 09/2015
  - Soleil, Paris, 10/2016
  - **CERN, Geneva, 01/2018**

**CLIC-ILC collaboration**
**EUCARD2**
**ARIES**
Emittance targets

2008

Emittance targets for various synchrotron facilities. The graph shows the horizontal emittance in nanometers (nm) on the x-axis and the vertical emittance in picometers (pm) on the y-axis. Different facilities are represented by markers, such as MAXIII, PEPII, ASTRID, ELETTRA, ALBA, CESRTA, PETRAIII, BESSYII, SPRING8, SPEARIII, SLS, DIAMOND, and Australian LS.
Emittance targets

2017

Emittance targets for various synchrotron radiation sources, such as PETRA III, MAXIII, PEP II, and Australian LS, are plotted on a logarithmic scale. The emittance targets are represented as points on a graph with vertical emittance on the y-axis and horizontal emittance on the x-axis. The emittance values are given in picometers (pm) and nanometers (nm). The graph shows a range of emittance values for different sources, with some sources having lower emittance targets than others. The graph also includes horizontal emittance targets for CLIC DR, SIRIUS, and Australian LS.
Goals of LER 2018

• Discuss on scientific progress and foster collaborations among the Low Emittance Rings’ community, as reflected on the ARIES-RULE WP tasks
  • Injection Systems
  • Beam dynamics and technology
  • Beam tests and commissioning
Workshop program

• **Three full days**, including sessions for
  • Low emittance rings **design** and **status** (Light sources, damping rings, e+/e- colliders)
    • Monday AM, Tuesday AM/PM, Wednesday AM/PM
  • **Collective effects** in low emittance rings
    • Monday PM
  • Low emittance rings **technology**
    • Tuesday PM, Wednesday AM
  • **Experimental tests** in low emittance rings
    • Tuesday PM
  • Workshop **summaries** and discussion
    • Wednesday PM
    • Session convenors are kindly asked to prepare 1-2 slides with key issues for each session to animate the discussion

• All speakers are kindly asked to **upload their presentation slides in indico**
CERN Wi-Fi network access

• If you are an “eduroam” user, simply connect to the “eduroam” Wi-Fi network.

• If you are not an eduroam user, connect to the Wi-Fi network named “CERN” and open a web browser.

• You will be redirected to the CERN registration portal where you will be guided step-by-step to register your device.

• If you do not have any CERN account, you will be asked for:
  • Your personal contact (name, email, etc…)
  • Visit detail (arrival/departure)
  • A CERN contact person (mark Yannis Papaphilippou, yannis@cern.ch). An email will be sent for approval and once this is done, your device will have full access to the CERN campus network and Internet.
Organisational aspects

- Workshop location: BE Auditorium Meyrin (6-2-024)
- Coffees are served in the 1st floor
- Lunches can be taken in restaurant 2 (tickets included)
Social program

- Welcome drink offered on Monday at 19:00 in the Restaurant 1 Glassbox (building 501)
**Social program**

- **Workshop dinner on Tuesday evening at 20:00** in **“Brasserie des Halles de l’île”, 1 Place de l’île, Genève**
- **Directions:** **Tram No18** from CERN to stop **Bel-Air** (~30min.) and 2 min. walk
- **Appointment at 19:00** at the CERN stop, for going as a group
For any questions…

• Contact the local organising committee
  • Yannis Papaphilippou (yannis@cern.ch)
  • Valerie Brunner (valerie.brunner@cern.ch)
  • Alessia Valenza (alessia.valenza@cern.ch)