



# Opening

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- Bring together scientific communities of **synchrotron light sources' storage rings, damping rings** for linear colliders and **e+/e- ring colliders** in order to communicate, identify and promote common work on topics affecting the design of **low emittance electron and positron rings**
- The series of workshops specifically aims at strengthening the collaborations within the low emittance rings' community, including the LOWεRING collaboration network and the Ultimate Storage Rings workshop series
- This is the 1st workshop on Low Emittance Rings Technology after the three general ones (CERN 2010, Heraklion 2011, Oxford 2013) and one topical on instabilities (Paris 2014)
- For more info see <https://espace.cern.ch/EuCARD2-Low-Emittance-Rings/default.aspx>

- Coordinators:
  - R. Bartolini (UOXF)
  - S. Guiducci (INFN-LNF)
  - Y. Papaphilippou (CERN)

Each one representing community of X-ray storage rings of e+/e- colliders and damping rings
- Formed **collaboration board**, representing the Low Emittance Rings community (including non-EU members)
  - B. Hettel (SLAC)
  - Q. Qin (IHEP)
  - D. Rubin (Cornell)
  - J. Urakawa (KEK)
  - Task coordinators: M. Böge (PSI), R. Nagaoka (Soleil), H. Schmickler (CERN)

Representing “Ultimate-storage ring” community and damping ring test facilities
- Organize Low Emittance Rings’ general and topical workshops (low emittance ring lattice design, collective effects and technology)

- Gather scientists but also industrial partners who are designing and building hardware for low emittance rings
- Emphasis on studies and experimental programs in existing rings and facilities.
- Specifically address impact of targeting and reaching ultra-low emittances to the design of technical systems in an environment dominated by synchrotron radiation
  - Operational issues
  - Manufacturing tolerances
  - Calibration and stability/repeatability problems

- Two full days
- 22 presentations (20-25 minutes)
- 15-minutes of fame talks on Monday afternoon
- Subjects treated
  - Insertion devices, magnets and alignment
    - SC wigglers
  - Beam Instrumentation
  - Kicker systems
  - RF system design, including low-level RF systems
  - Vacuum design
  - Feedback systems
- Podium discussion on Tuesday afternoon
- Happy hour on Monday evening
- Presenters' guidelines
  - Upload your presentations to indico ASAP (contact us for help)
  - Leave time for discussions (3-5 minutes)

## Low Emittance Rings workshop

### LOWεRING 2014



LNF-INFN, Frascati  
17-19 September 2014



Goal of the workshop is to bring together experts from the scientific communities working on low emittance lepton rings

#### Workshop sessions

- Low emittance lattice design and tuning
- Collective effects
- Low emittance ring technology



Proposals for contributions should be addressed to  
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- Time: **17-19 September 2014**
- Place: INFN-LNF, Frascati
- Organizing committee: R. Bartolini, S. Guiducci, Y. Papaphilippou, B. Hettel, Q. Qin, D. Rubin, J. Urakawa
- Registration deadline July 2014
- Accommodation deadline 31<sup>st</sup> of May 2014
- For more info:  
<https://agenda.infn.it/conferenceDisplay.py?confId=7766>





Enjoy the workshop!