

WELCOME TO HB-2023!

On behalf of the International Organising Committee (IOC) and Local Organising Committee (LOC), we are pleased to announce that the 68th ICFA Advanced Beam Dynamics Workshop on High-Intensity and High-Brightness Hadron Beams will be held at CERN from October 9 to 13, 2023. The HB workshop is the main international event for the high-intensity high-brightness hadron beam community and HB-2023 will continue the series of workshops started in 2002 at FNAL, and which rotates every two years between America, Europe and Asia. It will be held at CERN for the first time, where the Science Gateway (a new outreach centre for science education) will be inaugurated 2 days before the workshop (on Saturday 07/10/23). The last HB edition was organised by FNAL for the second time but virtually and in 2021, instead of 2020, due to the COVID pandemic. As in the last editions, there will be five working groups:

- Beam Dynamics in Rings
- Beam Dynamics in Linacs
- Accelerators Systems
- Operations and Commissioning
- Beam Instrumentation and Intercepting Devices

This will be an excellent opportunity to showcase the high-brightness beams at CERN following a recent significant upgrade of our injector complex (within the LHC injectors Upgrade project between 01/12/2010 and 30/06/2021), and to welcome all the community working with such beams to present the latest results from this important field. This is why the main theme of HB-2023 will be: “Increasing the bunch brightness and preserving it”.

A total of 173 abstracts were submitted to HB-2023, whose programme will consist of 67 invited talks, 41 contributed talks and 65 posters (out of which 11 will also be presented during new FLASH presentations of 4 minutes without questions). In more details, HB-2023 will start with a day of plenary talks, followed by a special seminar on “Collective Effects in Lepton Circular Colliders and Synchrotron Light Sources” before the Monday evening Welcome Drink. In the next two days and a half, two sessions will be held in parallel, covering the five working groups. At the beginning of Thursday afternoon, the special session of FLASH presentations will take place, before the poster session which will take place during the cocktail in Geneva downtown, at the BFM (Bâtiment des Forces Motrices) where the first Geneva water jet was produced. Between the poster session/cocktail and the banquet, a short concert from the Trois-Chêne Orchestra will also take place. The beginning of the last day will start with a parallel session followed by the summary session (where only short - 10 min - summaries per working group will be provided), the announcement of HB-2025 and the closing session. Finally, Friday afternoon will be reserved for several possible visits at CERN.

It is worth reminding that the program of the HB workshops is set by the IOC, which selects the plenary speakers and working group conveners. The speakers of the parallel sessions are invited by the working group conveners and are selected from the submitted abstracts. These committees (together with the LOC) have done an excellent work in setting up the program, and without their help this workshop would have been impossible. This is why we would like to warmly thank all the members of these committees for all their work!

About 200 delegates are expected and we look forward to welcoming all of you at CERN and for exciting and inspiring discussions!

Sincerely,
Elias Métral (HB-2023 Chair) and Simone Gilardoni (HB-2023 Co-Chair)