IBIC '20

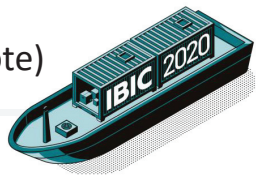
International Beam Instrumentation Conference

Summary

CNPEM

LNLS + sirius

IBIC 2020 - 9th International Beam Instrumentation Conference (Remote)



EXHIBITORS

bergoz INSTRUMENTATION

dimtel

JACoW.org

RadiaBeam

UHV D

APS American Physical Society JOURNALS

INSTRUMENTATION TECHNOLOGIES

TELEDYNE SP DEVICES Everywhereyoulook™

Faraday Cup Award:

Faraday-cup.com

CAENels Gear For Science

PHOTONIS Scientific Detectors

OAK RIDGE National Laboratory

iSee

πTEC PI-TECNOLOGIA

CNPEM

MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATIONS

PÁTRIA AMADA BRASIL BRAZILIAN GOVERNMENT

IBIC 2020 - 9th International Beam Instrumentation Conference (Remote)

start time (UTC)	Monday, 14 Sep	Tuesday, 15 Sep	Wednesday, 16 Sep	Thursday, 17 Sep	Friday, 18 Sep	start time (UTC)
12:00		Opening Social Hour (@iSee) *12:00 - 13:00 (UTC)*	Opening Social Hour (@iSee) *12:00 - 13:00 (UTC)*	Opening Social Hour (@iSee) *12:00 - 13:00 (UTC)*	Opening Social Hour (@iSee) *12:00 - 13:00 (UTC)*	12:00
...	**MOAO: Overview and Commissioning (@ZOOM)** **Moderators:** Steven Lidia (FRIB), Adriana Wawrzyniak (Solaris)	**TUAO: Beam Charge, Beam Loss, Machine Protection and Feedback Systems (@ZOOM)** **Moderators:** David Gassner (BNL), Kay Wittenburg (DESY)	**WEAO: Longitudinal Diagnostics and Synchronization (@ZOOM)** **Moderators:** Mario Ferianis (Elettra), Volker Schlott (PSI)	**THAO: Transverse Profile, Emittance Monitors and Machine Learning (@ZOOM)** **Moderators:** Andreas Jansson (ESS), Changbum Kim (PAL)	**FRAO: Beam Position Monitors and Data Acquisition (@ZOOM)** **Moderators:** Nicolas Hubert (Soleil), Rhodri Jones (CERN)	...
13:00	**Welcome (@ZOOM)**	**Precise Bunch Charge Measurement Using BPM Pickup** Jian Chen (SSRF/SARI)	**Novel Trends in Bunch Length Diagnostics Based on Coherent Polarization Radiation** Alessandro Curcio (Solaris)	**Machine Learning-based Beam Size Stabilization** Simon C. Leemann (LBNL)	**Developing Electronics for Radiation Environments** Salvatore Danzeca (CERN)	13:00
13:10						13:10
13:20	**Initial Experiences With Beam Diagnostics During Sirius Commissioning** Henrique de O. Caiafa Duarte (LNLS/Sirius)	**Investigation of Novel Radiation Hard and Fast Scintillator for Heavy Ions Detection** - Maxim Saifulin (GSI)	**Terahertz Detection Techniques Overview** Francesco Mazzocchi (KIT)	**Using Machine Learning Tools to Predict Accelerator Failure** Miha Reščič (University of Huddersfield)	**Direct Digitization and ADC Parameter Trade-off for Bunch-by-Bunch Signal Processing** Irene Degl'Innocenti (University of Pisa / CERN)	13:20
13:30		**Diagnostics for Collimator Irradiation Studies in the Advanced Photon Source Storage Ring** Jeffrey Dooling (ANL/APS)				13:30
13:40	**Beam Instrumentation Performances Through the ESRF-EBS Commissioning** Laura Torino (ALBA - formerly at ESRF)		**Optimization of Lasers in Electron Accelerator Applications** Sharon Vetter (SLAC)	**Beam Coupling Impedance Analyze Using Bunch-by-Bunch Measurement** - Xingyi Xu (SSRF/SARI)	**High Performance Data Acquisition for a Modern Accelerator** - Guobao Shen (ANL/APS)	13:40
13:50		**The Ionization Chamber Monitor for Electron Beam at Ultra High Dose Rate** - Chloe Lahaye (IN2P3/LPC Caen)		**Source Size and Emittance Measurements for Low-Emittance Light Sources** Nazanin Samadi (CLS) and Xianbo Shi (ANL/APS)	**BPM Electronics with Self-Calibration at the ALS** Gregory Portmann (LBNL)	13:50
14:00	**Beam Diagnostics in the Advanced Plasma Wakefield Experiment AWAKE** Anna-Maria Bachmann (MPI Munich / CERN)	**System Identification and Stability Considerations for Closed Orbit Feedback at SIS-18** - Rahul Singh (GSI)	**Non-invasive Longitudinal Profile Measurements of Electron Bunches Simultaneously to FEL Operation at MHz Rates** Nils Lockmann (DESY)			14:00
14:10		**Break and Social Interaction (@ZOOM)**	**Break and Social Interaction (@ZOOM)**	**Advanced Laser-Driven Plasma Accelerator Electron-Beam Diagnostics with COTR Techniques** Alex Lumpkin (FNAL/Fermilab)	**Break and Social Interaction (@ZOOM)**	14:10
14:20	**Break and Social Interaction (@ZOOM)**	**TUPP: Tuesday Poster Session (@ZOOM)** *14:20 - 16:30 (UTC)* + **Industrial Exhibition (@Virtual Booths)** *14:20 - 16:30 (UTC)*	**WEPP: Wednesday Poster Session (@ZOOM)** *14:20 - 16:30 (UTC)* + **Industrial Exhibition (@Virtual Booths)** *14:20 - 16:30 (UTC)*	**Features of the Metal Microstrip Detectors for Beam Profile Monitoring** - Dmytro Ramazanov (NASU/INR)	**Commissioning of the Beam Energy Position Monitor System for the Superconducting RIKEN Heavy-ion Linac** Tamaki Watanabe (RIKEN)	14:20
14:30	**Commissioning of the CSNS Beam Instrumentation System** Jilei Sun (CSNS)			**Break and Social Interaction (@ZOOM)**		14:30
14:40				**THPP: Thursday Poster Session (@ZOOM)** *14:40 - 16:30 (UTC)* + **Industrial Exhibition (@Virtual Booths)** *14:40 - 16:30 (UTC)*	**HEPS Storage Ring BPM Development** Shu-Jun Wei (IHEP/HEPS)	14:40
14:50	**Beam Instrumentation System for Shanghai Soft X-ray FEL Test Facility** - Longwei Lai (SSRF/SARI)				**IBIC 2020 Summary (@ZOOM)**	14:50
15:00	**Group Print Screen (@ZOOM)**				**IBIC 2021 Presentation (@ZOOM)**	15:00
15:10	**Q&A Virtual Conference (@ZOOM)** *15:10 - 16:30 (UTC)* Guidance for Poster Presentation Clarification of Doubts Feedback from Participants ***Moderators:*** *Willem Blokland (ORNL)* *Lorraine Bobb (DLS)* *Gustavo Bruno (LNLS/Sirius)* *Daniel Tavares (LNLS/Sirius)* — **Industrial Exhibition (@Virtual Booths)** *15:10 - 16:30 (UTC)*				**Closing Remarks (@ZOOM)**	15:10
...					**Tracks:** Overview and Commissioning; Beam Charge and Current Monitors; Beam Loss Monitors and Machine Protection; Feedback Systems and Beam Stability; Longitudinal Diagnostics and Synchronization; Machine Parameter Measurements; Transverse Profile and Emittance Monitors; Data Acquisition and Digital Architectures; Beam Position Monitors	15:20 ...
16:30 ... 17:30 ...	**Beam Instrumentation Community Get-together (@iSee)** *16:30 - 18:00 (UTC)*	**End Social Hour (@iSee)** *16:30 - 17:30 (UTC)*	**End Social Hour (@iSee)** *16:30 - 17:30 (UTC)*	**End Social Hour (@iSee)** *16:30 - 17:30 (UTC)*		
18:00						18:00

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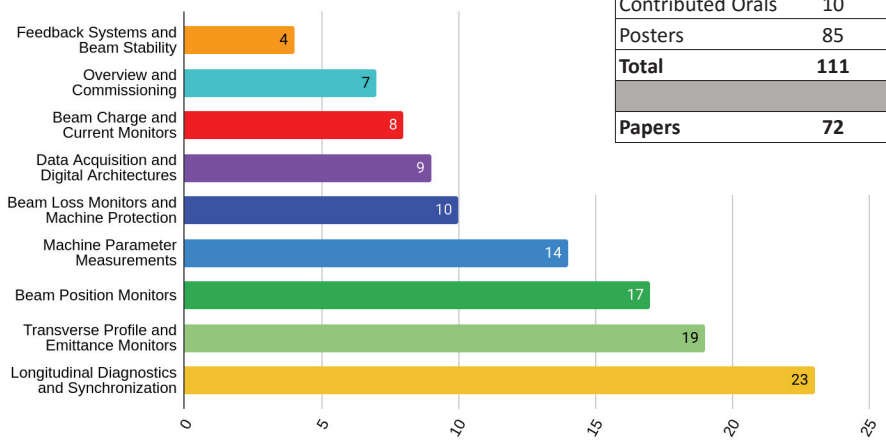
Presented Work

Contribution	Count	Time (pre-recorded)
Invited Orals	16	6 hours 17 minutes
Contributed Orals	10	1 hour 52 minutes
Posters	85	-
Total	**111**	**8 hours 8 minutes**
Papers	**72**	**-**



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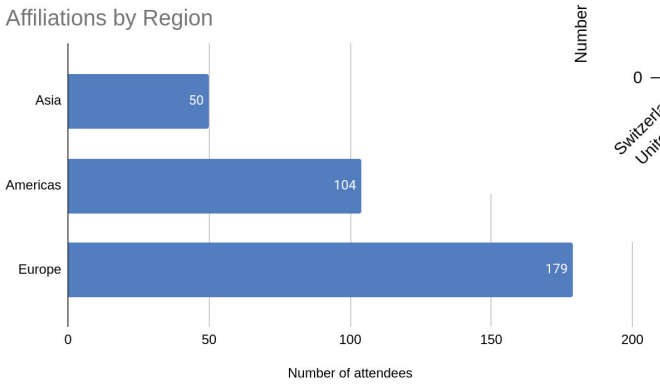
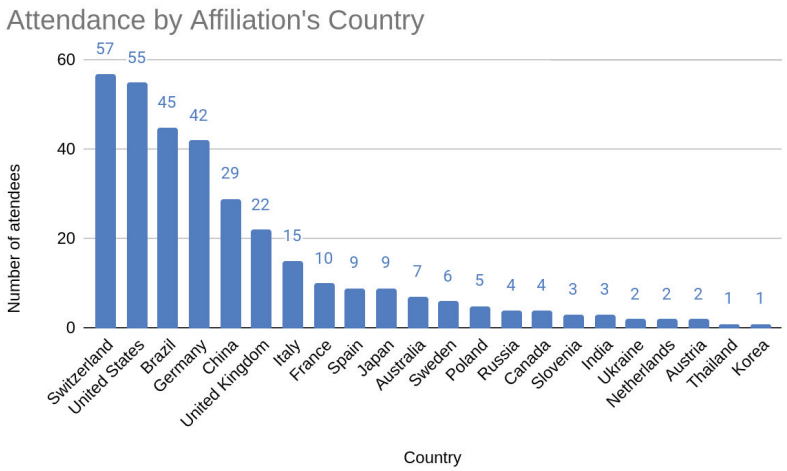
Participation

Attendee	Count
Delegates	220
Students	70
Exhibitors (Delegates)	19
Total	**309**
Exhibitors (Companies)	**9**





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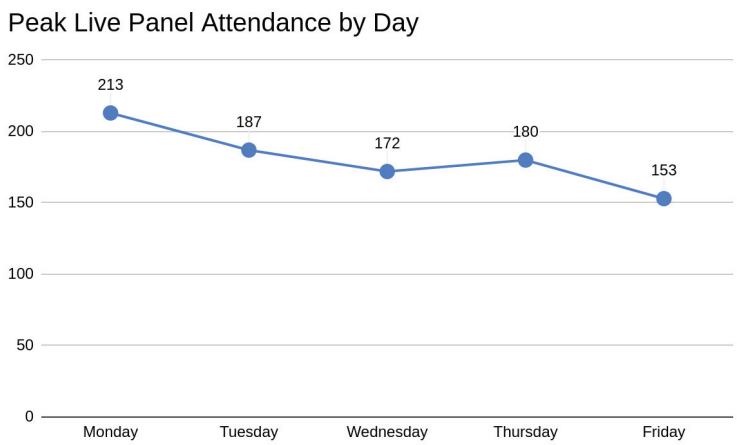
Interaction



Compiled all entries on chats, Q&A and community boards: **681 raw entries**

Removing comments like "Hi", "Thanks", "Nice", "Here's my email", troubleshooting, Whova automatic messages, LOC messages with Zoom links, etc.:

269 entries of true interaction by written form

In addition:

- direct questions on 5 days of live panels
- discussions on up to 31 parallel poster
- social events in "virtual reality"

THE (REMOTE) JACoW TEAM!

Renan Picoreti
(Editor-in-chief)

Renan Picoreti – CNPEM

Jan Chrin - PSI

Volker RW Schaa - GSI

David Button - ANSTO

Anthony Cuffe - JLab

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- Whova platform, including the Q8 communities will be online for several months!
- Feel free to continue asking and answering the Q&A boards and topics of the communities!
- Proceedings will be published on the JACoW website at: https://jacow.org/IBIC2020

IBIC 2020 LOCAL Organizing Committee

Renan Picoteti

Priscila Alves

Dora Marques

Lucas Dias

Santos city (before the pandemic)

Starting at *1 pm UTC*
6 am in Vancouver and California
Finishing at *4h30 pm UTC*
2:30 am in Melbourne
GREENLAND
CANADA
UNITED STATES
ALASKA (U.S.)
HAWAII (U.S.)
MEXICO
CUBA
THE BAHAMAS
DOMINICAN REPUBLIC
HAITI
JAMICA
VENEZUELA
COLOMBIA
GALAPAGOS ISLANDS
PERU
BRAZIL
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SOUTH GEORGIA AND SOUTH SANDWICH ISLANDS
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KIRIBATI
COOK ISLANDS
FRENCH POLYNESIA
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EASTER ISLAND
SVALBARD
JAN MAYEN (NORWAY)
ICELAND
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SIERRA LEONE
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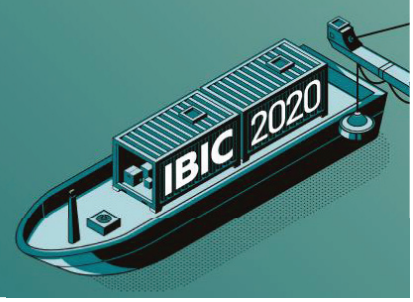
THANK YOU!



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