

# IBIC '20

International Beam  
Instrumentation Conference

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## Summary

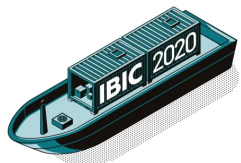


Starting at **1 pm UTC**  
**6 am** in Vancouver and California



Finishing at **4h30 pm UTC**  
**2:30 am** in Melbourne

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

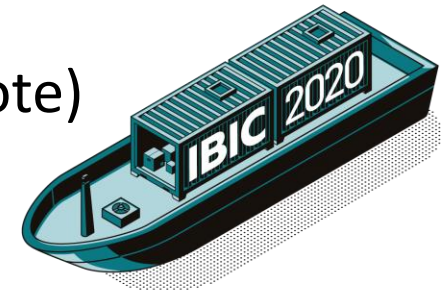


start time (UTC)	Monday, 14 Sep	Tuesday, 15 Sep	Wednesday, 16 Sep	Thursday, 17 Sep	Friday, 18 Sep	start time (UTC)
12:00		Opening Social Hour (@iSee) 12:00 - 13:00 (UTC)	Opening Social Hour (@iSee) 12:00 - 13:00 (UTC)	Opening Social Hour (@iSee) 12:00 - 13:00 (UTC)	Opening Social Hour (@iSee) 12:00 - 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)  Diagnostics for Collimator Irradiation Studies in the Advanced Photon Source Storage Ring Jeffrey Dooling (ANL/APS)	Terahertz Detection Techniques Overview Francesco Mazzocchi (KIT)  Optimization of Lasers in Electron Accelerator Applications Sharon Vetter (SLAC)	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						13:30
13:40	Beam Instrumentation Performances Through the ESRF-EBS Commissioning Laura Torino (ALBA - formerly at ESRF)	The Ionization Chamber Monitor for Electron Beam at Ultra High Dose Rate - Chloe Lahaye (IN2P3/LPC Caen)	Non-invasive Longitudinal Profile Measurements of Electron Bunches Simultaneously to FEL Operation at MHz Rates Nils Lockmann (DESY)	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						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)  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)	BPM Electronics with Self-Calibration at the ALS Gregory Portmann (LBNL)	14:00
14:10						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)  Break and Social Interaction (@ZOOM)	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)					14:30
14:40	Beam Instrumentation System for Shanghai Soft X-ray FEL Test Facility - Longwei Lai (SSRF/SARI)					14:40
14:50	Group Print Screen (@ZOOM)					14:50
15:00	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)	Industrial Exhibition (@Virtual Booths) 14:20 - 16:30 (UTC)	THPP: Thursday Poster Session (@ZOOM) 14:40 - 16:30 (UTC)  + Industrial Exhibition (@Virtual Booths) 14:40 - 16:30 (UTC)	IBIC 2020 Summary (@ZOOM)	15:00
15:10						15:10
16:30	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)	Closing Remarks (@ZOOM)	15:10
17:30						15:20
18:00						18:00

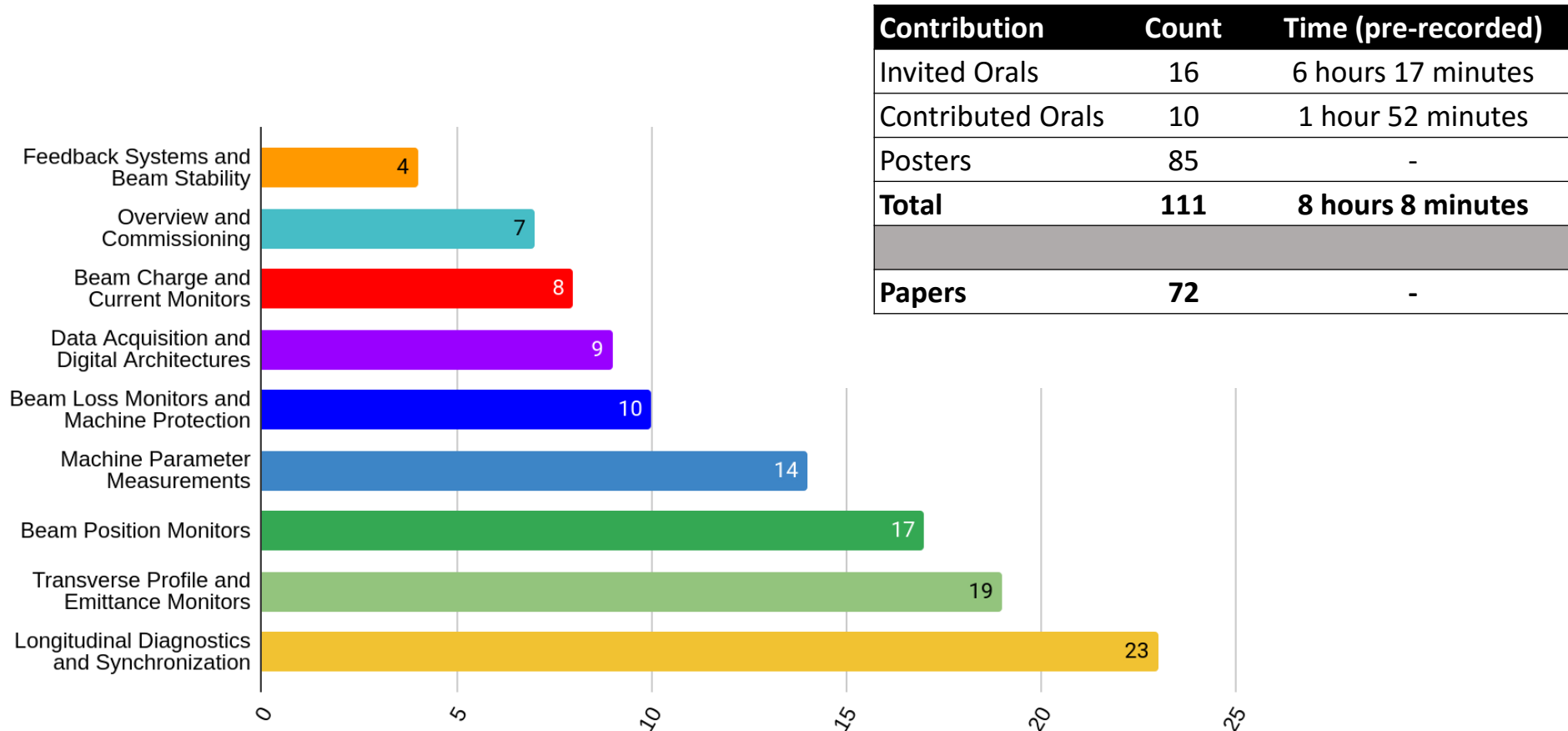
**Tracks:**

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

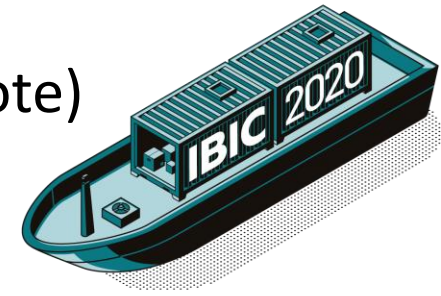
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## Presented Work



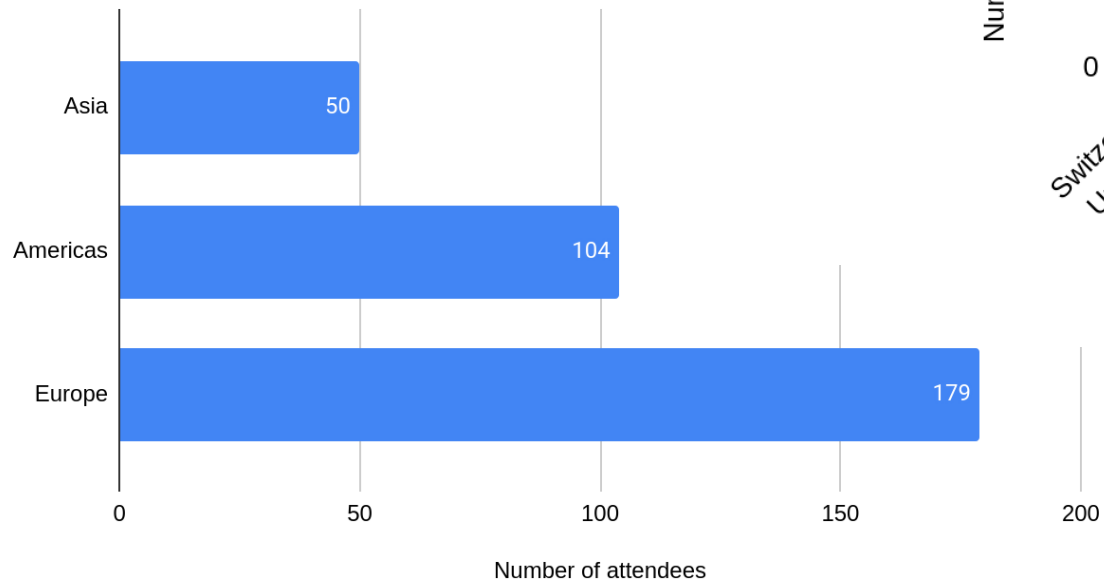
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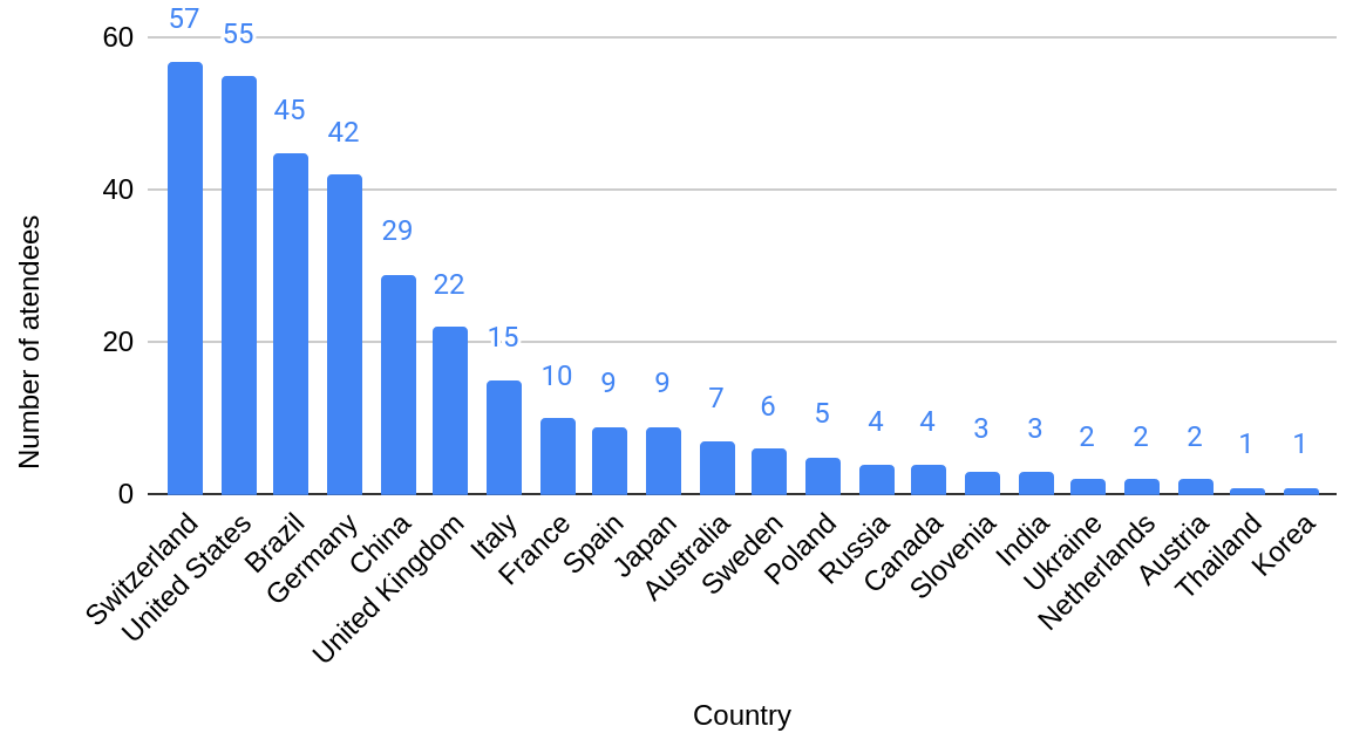
## Participation

Attendee	Count
Delegates	220
Students	70
Exhibitors (Delegates)	19
<b>Total</b>	<b>309</b>
Exhibitors (Companies)	9

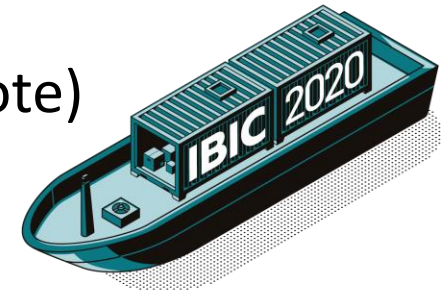
### Affiliations by Region



### Attendance by Affiliation's Country

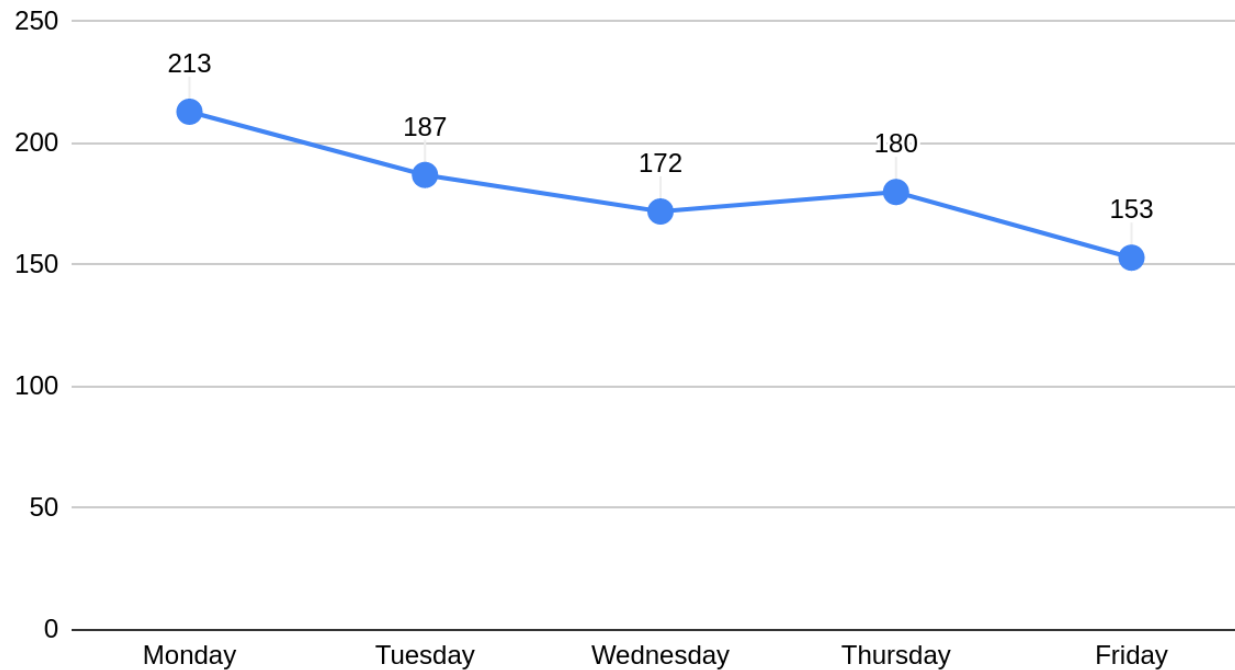


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## Interaction

Peak Live Panel Attendance by Day



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

Removing comments like "Hi", "Thanks", "Nice", "Here's my email", troubleshooting, Whoava 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"



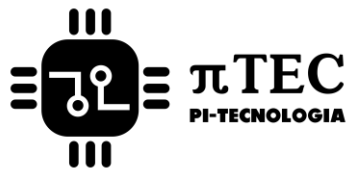
Press  to leave the arrangement



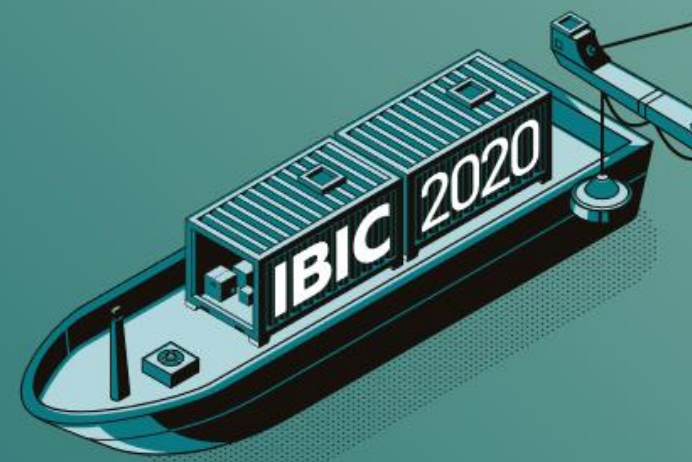
Disconnected from a Relay Server.  
RakNetGuid=495408720337421817 ×

Disconnected from a Relay Server.  
RakNetGuid=1076373071705688100 ×





THANK YOU!



MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATIONS

