

SnowMass2021

Workshop
on
High Power Cyclotrons/FFAs

September 7-9, 2021, Zoom

Welcome!

- We are pleased to welcome you to this 3-day workshop about high-power cyclotrons/FFAs!
- We will have two hours of presentations followed by a 1 hour discussion.
- Please save any questions and comments for the “Plenary Discussion” at 11 AM EDT.
- Please adhere to the DPF Core Principles and Community Guidelines (<https://snowmass21.org/cpcg/start>)
- For technical questions/help with Zoom, contact Daniel (winklehn@mit.edu or Zoom chat PM)
- Please mute yourself during the talks

Tuesday

Timetable

< Tue 07/09 Wed 08/09 Thu 09/09 All days >

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Session legend

● Current state of the art in high

09:00	Welcome Remarks <i>Zoom</i>	<i>Daniel Winklehner</i> 09:00 - 09:05
	TRIUMF Cyclotron Current Limit <i>Zoom</i>	<i>Thomas Planche</i> 09:05 - 09:25
	Operational experience with the RIKEN RIBF accelerator complex <i>Zoom</i>	<i>Hiroki Okuno</i> 09:25 - 09:40
	A 70 MeV cyclotron facility of IBS for ISOL and other uses <i>Zoom</i>	<i>Jongwon Kim</i> 09:40 - 09:55
10:00	The High Intensity Proton Accelerator Facility at PSI. Past, Present, Projects. <i>Zoom</i>	<i>Joachim Grillenberger</i> 10:00 - 10:20
	Major limitations of fixed field particle accelerators <i>Zoom</i>	<i>Malek Haj Tahar</i> 10:20 - 10:40
	Limitations of High-Power Cyclotrons 1 <i>Zoom</i>	<i>Christian Baumgarten</i> 10:40 - 10:55
11:00	Current state of the art in high power cyclotrons/FFAs: Panel Discussion <i>Zoom</i>	11:00 - 12:00
12:00		

Wednesday

Timetable

< Tue 07/09 Wed 08/09 Thu 09/09 All days >

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Session legend

Applications of high power

09:00	Production of radioisotopes for application studies at RIKEN RI Beam Factory <i>Zoom</i>	<i>Hiromitsu Haba</i> 09:00 - 09:20
	Isotope Production at UAB <i>Zoom</i>	<i>Dr Suzanne Lapi</i> 09:20 - 09:30
	Radionuclide Production at TRIUMF: The Institute for Advanced Medical Isotopes (IAM), The Future is Now. <i>Thomas Ruth</i>	
	An application of high power cyclotrons in physics: IsoDAR <i>Zoom</i>	<i>Josh Spitz</i> 09:40 - 10:00
10:00	The search for $\mu\rightarrow eee$ and what it may need beyond Mu3e phase II <i>Zoom</i>	<i>Frank Meier Aeschbacher</i> 10:00 - 10:15
	Break <i>Zoom</i>	10:15 - 10:20
	Megawatt Class Beams From Fixed-Field Rings For ADS-Reactor Application <i>Zoom</i>	<i>Francois Meot</i> 10:20 - 10:35
	ADS Prospects and Requirements <i>Zoom</i>	<i>Roger Barlow</i> 10:35 - 10:50
	Limits of the present cyclotron projects and future perspectives for ADS. <i>Zoom</i>	<i>Luciano Calabretta</i> 10:50 - 11:00
11:00	Applications of high power cyclotrons/FFAs: Panel Discussion <i>Zoom</i>	11:00 - 12:00
12:00		

Thursday

Timetable

< Tue 07/09 Wed 08/09 **Thu 09/09** All days >

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Session legend

Novel concepts for high power ×

09:00	Development of vertical excursion FFA <i>Zoom</i>	<i>Jean-Baptiste Lagrange</i> 09:00 - 09:20
	INNOVATRON: AN INNOVATIVE INDUSTRIAL HIGH-INTENSITY CYCLOTRON FOR PRODUCTION OF MEDICAL RADIOIS... <i>Grazia D'Agostino</i>	
	The RFQ Direct Injection System for the IsoDAR cyclotron <i>Zoom</i>	<i>Loyd Waites</i> 09:30 - 09:40
	Spiral Inflectors for High Power Cyclotrons <i>Zoom</i>	<i>Hugo Barnard</i> 09:40 - 09:50
	Feasibility study for the cylindrically symmetric magnetic inflector <i>Zoom</i>	<i>Lige Zhang</i> 09:50 - 10:00
10:00	Development of the simulation code OPAL <i>Zoom</i>	<i>Pedro Calvo</i> 10:00 - 10:20
	Use of a map approach for tracking in FFAs <i>Zoom</i>	<i>Chris Rogers</i> 10:20 - 10:40
	TRIUMF Simulation Tools Status & Future <i>Zoom</i>	<i>Dr Thomas Planche</i> 10:40 - 11:00
11:00	Novel concepts for high power cyclotrons/FFAs: Panel discussion <i>Zoom</i>	11:00 - 12:00
12:00		