

Dark Wave Lab Workshop

Monday, 15 April 2024

Presentations: Dark Wave Lab Concept - One West (09:20 - 10:40)

-Conveners: Andrew Sonnenschein

time	[id] title	presenter
09:20	[1] Dark Wave Lab Concept and Facilities	SONNENSCHIN, Andrew
09:40	[3] Cryostat options for 9.4 Tesla x 800 mm solenoid	HOLLISTER, Matthew
10:00	[4] Large aperture dipole	VELEV, Gueorgui
10:20	[5] Giant Magnets	CHOU, Aaron

Presentations: Experiment concepts - One West (11:20 - 12:20)

-Conveners: Andrew Sonnenschein

time	[id] title	presenter
11:20	[10] ADMX-SLIC	TANNER, David
11:40	[11] The Case for Broadband	KAHN, Yonatan
12:00	[25] Massively multiplexed dark matter searches with integrated photonics	JANISH, Ryan

Presentations: Experiment concepts - One West (13:00 - 14:00)

-Conveners: Stefan Knirck

time	[id] title	presenter
13:00	[6] ADMX-EFR	CAROSI, Gianpaolo
13:20	[13] Superconducting Cavities for 4-10 GHz	CERVANTES, Raphael
13:40	[17] ADMX-VERA	KUO, Chao-lin

Presentations: Experiment concepts - One West (16:30 - 18:10)

-Conveners: Stefan Knirck

time	[id] title	presenter
16:30	[12] Cavity Resonators 100-600 Mhz	SIKIVIE, Pierre
16:50	[22] New techniques to Search for Axion Dark matter	TOBAR, Michael
17:10	[26] CAPP Superconducting Cavities	KWON, Ohjoon Dr CHUNG, Woohyun
17:30	[30] Recent progress at CAPP	CHUNG, Woohyun
17:50	[24] Feasibility of superconducting qubits in a strong magnetic field	NITTA, Tatsumi

Tuesday, 16 April 2024

Presentations: High Frequency Axion Searches >10 GHz - Big Room (09:00 - 10:40)

-Conveners: Bianca Giaccone

time	[id] title	presenter
09:00	[14] MADMAX	MAJOROVITS, Béla
09:20	[15] GigaBREAD	KNIRCK, Stefan
09:40	[16] Orpheus	SINNIS, James
10:00	[21] InfraBREAD	WANG, Christina WANG, Christina
10:20	[23] ALPHA	MILLAR, Alexander

Presentations: Other Dark Wave Lab Ideas - Big Room (11:10 - 12:40)

-Conveners: Bianca Giaccone

time	[id] title	presenter
11:10	[19] Physical Signatures of Spin-Coupled Axions	BERLIN, Asher
11:30	[28] Lumped Element Axion Detection in the High Frequency Limit	FOSTER, Joshua
11:50	[27] Persistent Magnets are Weber Bars	RODD, Nicholas
12:10	[29] Dielectric enhancements: TeraBREAD and beyond	BARYAKHTAR, Masha
12:30	[31] Organizing afternoon tours and discussions	SONNENSCHN, Andrew

Presentations: Discussion of Dark Wave Lab Organization, Funding, Next steps - Big Room (16:00 - 17:10)

-Conveners: Andrew Sonnenschein