

**Joint IQ Initiative & PITT
PACC Workshop: Axions,
Fundamental and Synthetic**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Axion dark matter conversion into condensed matter axion

Thursday 6 April 2023 11:30 (35 minutes)

Presenters: CHIGUSA, So (University of Tokyo); CHIGUSA, So

Contribution ID: 2

Type: **not specified**

Axionic and Phonon Polaritons for Axion Dark Matter Detection

Thursday 6 April 2023 10:55 (35 minutes)

Presenters: SCHÜTTE-ENGEL, Jan (RWTH); SCHÜTTE-ENGEL, Jan

Contribution ID: 3

Type: **not specified**

Axion electrodynamics and its applications to the Kerr effect in topological anti-ferromagnets (I)

Thursday 6 April 2023 14:40 (40 minutes)

Presenter: Dr AHN, Junyeong (Harvard University)

Contribution ID: 4

Type: **not specified**

Axion electrodynamics and its applications to the Kerr effect in topological anti-ferromagnets (II)

Thursday 6 April 2023 16:00 (40 minutes)

Presenter: Prof. XU, Suyang (Harvard University)

Contribution ID: 5

Type: **not specified**

The hunt for wave-like dark matter at SLAC

Friday 7 April 2023 11:25 (35 minutes)

Presenters: BARTRAM, Chelsea; BARTRAM, Chelsea (SLAC)

Contribution ID: 6

Type: **not specified**

The HAYSTAC Experiment

Thursday 6 April 2023 14:00 (40 minutes)

Presenters: SPELLER, Danielle (Johns Hopkins); SPELLER, Danielle (Yale University)

Contribution ID: 7

Type: **not specified**

Axion electrodynamics in strong topological insulators

Friday 7 April 2023 09:00 (35 minutes)

Presenter: Prof. NARANG, Prineha (UCLA)

Contribution ID: 8

Type: **not specified**

Axion detection via stimulated emission

Thursday 6 April 2023 09:10 (35 minutes)

Presenter: CHOU, Aaron

Contribution ID: 9

Type: **not specified**

The piezoaxionic effect

Friday 7 April 2023 15:50 (35 minutes)

Presenter: Dr MADDEN, Amalia (Perimeter Institute for Theoretical Physics)

Contribution ID: **10**

Type: **not specified**

Vanishing of Casimir forces in axion electrodynamics

Thursday 6 April 2023 09:45 (35 minutes)

Presenters: EMA, Yohei (Deutsches Elektronen-Synchrotron DESY); EMA, Yohei

Contribution ID: 11

Type: **not specified**

The CASPER Experiment & future avenues for axion detection using AMO systems

Friday 7 April 2023 14:00 (35 minutes)

Presenter: SUSHKOV, Alexander

Contribution ID: 12

Type: **not specified**

Sensitivity of spin-precession axion experiments

Friday 7 April 2023 14:35 (35 minutes)

Presenter: Dr DROR, Jeff (Lawrence Berkeley National Laboratory)

Contribution ID: 13

Type: **not specified**

Detectability of axion dark matter with phonon polaritons and magnons

Friday 7 April 2023 10:50 (35 minutes)

Presenter: TRICKLE, Tanner (California Institute of Technology)

Contribution ID: 14

Type: **not specified**

Detection of axions with opto-mechanical cavities

Saturday 8 April 2023 10:50 (40 minutes)

Presenter: WANG, Yikun (THE UNIVERSITY OF CHICAGO)

Contribution ID: 15

Type: **not specified**

Probing microscopic origins of axions by the chiral magnetic effect

Saturday 8 April 2023 09:35 (35 minutes)

Presenter: Dr IM, Sang Hui (IBS CTPU)

Contribution ID: 17

Type: **not specified**

Chiral fermions and the chiral magnetic effect

Saturday 8 April 2023 09:00 (35 minutes)

Presenters: Prof. LI, Qiang (Stony Brook University/Brookhaven National Laboratory); LI, Qiang (Stony Brook University/Brookhaven National Laboratory)

Contribution ID: 18

Type: **not specified**

Ultrafast Imaging of Plasmonic Vortex Fields with Axion-type Response

Friday 7 April 2023 09:35 (35 minutes)

Presenter: GHOSH, Atreyie (University of Pittsburgh)

Contribution ID: **19**

Type: **not specified**

Workshop Banquet

Friday 7 April 2023 17:30 (3h 30m)

Contribution ID: 20

Type: **not specified**

Welcome by the IQ Initiative Director

Thursday 6 April 2023 09:00 (10 minutes)

Presenter: Prof. LIU, W. Vincent (University of Pittsburgh)

Contribution ID: 21

Type: **not specified**

Discussion

Thursday 6 April 2023 12:05 (15 minutes)

Contribution ID: 22

Type: **not specified**

Discussions

Friday 7 April 2023 12:00 (20 minutes)

Contribution ID: 23

Type: **not specified**

Discussion

Thursday 6 April 2023 16:40 (20 minutes)

Contribution ID: 24

Type: **not specified**

Discussion

Friday 7 April 2023 16:25 (35 minutes)

Contribution ID: 25

Type: **not specified**

Discussion

Saturday 8 April 2023 12:05 (15 minutes)

Contribution ID: 26

Type: **not specified**

New Direction in Axion Detection

Saturday 8 April 2023 11:30 (35 minutes)

Presenter: RAJENDRAN, Surjeet