

## AXIONS AT THE CROSSROADS: QCD, DARK MATTER, ASTROPHYSICS

<b>MON 20/11</b>	<b>Chairman Monday morning: Mirizzi, Monday afternoon: Lombardo</b>
<b>9:00 AM</b>	<b>Workshop Registration</b>
09:40-10:00	Welcome
10:00-10:40	Villadoro: "QCD axion"
10:40-11:20	Coffee Break
11:20-12:00	Berkowitz: "Axion Bounds for Pure Glue"
12:00-14:00	Lunch
14:00-14:40	Redondo: "Axion Dark Matter"
14:40-15:10	Gorghetto: "Axion dark matter from cosmic string networks"
15:10-15:40	Coffee Break
15:40-16:10	Ligi: "The klash proposal: searching for galactic axions with a large volume haloscope"
16:10-16:40	Gatti: "The Quax Proposal: Searching for galactic axions through magnetized media"
16:40-17:10	Wickenbrock: "Detecting Axion-like particles with table top experiments"
17:10-17:40	Crescini: "New constraints on spin-dependent interaction mediated by pseudo-scalar bosons"
17.40-18:00	Pause
18:00-19:00	Discussion Session: <i>Theory and cosmology</i> (Chairmen: Redondo&Villadoro)
<b>TUES 21/11</b>	<b>Chairman Tuesday morning: Wickenbrock, Tuesday afternoon: Zappalà</b>
10:00-10:40	Cicoli: "Axions from Strings"
10:40-11:20	Coffee Break
11:20-11:50	Steffen: "MADMAX"
11:50-12:20	Della Valle: "Model independent search for axion-like particles in the PVLAS experiment"
12:20-14:00	Lunch
14:00-14:40	Sharma: "The topological susceptibility in finite temperature QCD and its role for axion cosmology"
14:40-15:20	Davidson: "Galactic halo: made of axions?"
15:20-15:50	Coffee Break
15:50-16:30	Klaer: "The dark-matter axion mass"
16:30-16:50	Pause
16.50- 17.50	Discussion Session: <i>QCD</i> (Chairmen: Berkowitz&Rinaldi)
<b>WED 22/11</b>	<b>Chairman Wednesday morning: Roncadelli, Wednesday afternoon: Montanino</b>
09:30-10:10	Fischer: "CAST-The CERN Axion Solar Telescope: Status and Perspectives"
10:10-10:30	Redondo: "IAXO"
10:30-11:00	Coffee Break
11:00-11:30	Sigl: "Astrophysical Haloscopes"
11:30-12:10	Giannotti: "Axions and stars"
12:10-13:30	Lunch
13:30-14:00	Straniero: "Axions: constraints from Globular Cluster Stars"
14:00-14:30	Dominguez: "Axions and AGB-Supernova Mass transitions"
14:30-15:00	Coffee Break
15:00-16:00	Colloquium Ringwald: "The Quest for the Axion"
16:00-16:30	Pause
16:30-17:30	Discussion Session: "Astrophysical aspects" (Chairmen: Giannotti&Montanino)
<b>THU 23/11</b>	<b>Chairman Thursday morning: Sungwoo Thursday afternoon: Davidson</b>
10:00-10:40	Fodor: "The topological susceptibility from the lattice"
10:40-11:20	Coffee Break
11:20-12:00	Lindner: "Light shining to the wall experiment"
12:00-12:40	Rybka: "DFSZ axion dark matter sensitivity with ADMX"
12:40-14:00	Lunch
14:00-14:30	Anne Ernst: "Axion Predictions in $SO(10) \times U(1)PQ$ Models"
14:30-15:00	Fonseca: "New developments in relaxion models"
15:00-15:30	Hollik: "The strong CP problem from a flavour physics perspective"
15:30-16:00	Coffee Break
16:00-16:30	Youn: "Axion DM Search in Korea"
16:30-17:00	Jeong: "Concept of multiple-cell cavity for axion dark matter search"
17:00-17:20	Pause
17.20-18.20	Discussion Session: "Experimental plans" (Chairmen: Lindner&Rybka)
<b>FRI 24/11</b>	<b>Chairman Friday morning: Giannotti</b>
09:30-10:10	Roncadelli: "Extragalactic photon-ALP oscillations up to 1000 TeV"
10:10-10:40	Coffee Break
10:40-11:10	Montanino: "Spectral hardening of cosmic TeV photons in realistic extragalactic magnetic fields"
11:10-11:50	Vogel: "Extragalactic photon-ALP conversion at CTA energies"
11:50-12:20	Laha: "Diffuse ALP detection"
12:20-12:30	Conclusions
12:30 PM	Lunch