

# School and workshop Program

## IPP12

	08:15-09:15	09:15-09:30	09:30-10:30+10'	10:40-11:00	11:00-12:00+10'	12:10-13:30	13:30-14:30+10'	14:40 - 15:00	15:00 -16:00+10'	16:10-16:30	16:30-17:30+10'
<b>Wednesday (26 Sep.)</b>	Registration	Opening	A. Yu. Smirnov	Break	M. Kachelriess	Lunch	A. Yu. Smirnov	Break	( <i>Special seminar</i> ) H. Fritzscht	Break	(Q. Dorosti seminar) Free Discussion and then Reception
<b>Thursday (27 Sep.)</b>			A. Yu. Smirnov	Break	M. Kachelriess	Lunch	O. L. G. Peres	Break	P. Lipari	Break	( <i>Special seminar</i> ) A. Ibarra
<b>Friday (28 Sep.)</b>			P. Lipari	Break	M. Kachelriess	Lunch	O. L. G. Peres	Break	P. Lipari	Break	Discussion
<b>Saturday (29 Sep.)</b>	Excursion										
<b>Sunday (30 Sep.)</b>	Workshop										
<b>Monday (October 1<sup>st</sup>)</b>	Workshop										

**Topics:**

A .Yu. Smirnov: Neutrinos: masses, mixing and flavor transformations

M. Kachelriess: High energy cosmic rays and neutrinos

P. Lipari: Neutrino astronomy

O. L. G. Peres: Data Analysis and Phenomenology of sterile neutrinos

H. Fritzscht: Neutrino masses and texture zero mass matrices

A. Ibarra: Leptogenesis

Q. Dorosti: Results from ANTARES

### Workshop (Morning Sessions)

	9:00 - 9:30+10'	9:40 - 10:10+10'	10:20 - 11:00	11:00 - 11:30+10'	11:40 - 12:10+10'	12:20 - 14:00
<b>Sunday (30 Sep.)</b>	T. Ohlsson	P. Lipari	Break	M. Kachelriess	E. Moravveji	Lunch
<b>Monday (Oct. 1<sup>st</sup>)</b>	A. Guller	S. Palomares	Break	A. Ibarra	A. Yu. Smirnov	Lunch

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## Workshop (Afternoon Sessions)

	14:00 - 14:30+10'	14:40 - 15:10+10'	15:20 -15:50+10'	16:00 - 16:30	16:30 - 17:00+10'	17:10 - 17:40+10'	17:50 - 19:00'	19:00
Sunday (30 Sep.)	D. Demir	H. Ghodsi	O. L. G. Peres	Break	Y. Pezeshkian	S. Agarwalla	Poster session	reception
Monday (Oct. 1 <sup>st</sup> )	A. Rezaei	Y. Farzan	A. Maleknejad	Break	A. Moshaii	A. Esmaili	H. Fritzsich	Conference Dinner

## Title of Talks

Speaker	Title
T. Ohlsson	Non-standard Neutrino Interactions
P. Lipari	Perspectives for High Energy Neutrino Astronomy
M. Kachelriess	High Energy Cosmic Rays and Neutrinos
E. Moravveji	Massive Star Pre-Collapse Evolution
D. Demir	Gravi-Natural Higgs and CFT New Physics
H. Ghodsi	Sudden Future Singularities Meet Observations
O. L. G. Peres	Constraining Neutrinos at KATRIN
Y. Pezeshkian	From Muon Telescope to EAS Array at Sharif University of Technology
S. Agarwalla	Probing Non-standard Interactions with Borexino
A. M. Guller	Recent OPERA Results
S. Palomares	A Novel Test of WIMPs Annihilations in the Sun: MeV Neutrinos
A. Ibarra	Neutrino Masses in the Two Higgs Doublet Model
A. Yu. Smirnov	Physics with Huge Atmospheric Neutrino Detectors
A. Rezaei	Vector Bosons as Dark Matter
Y. Farzan	Recipes and Ingredients for Neutrino Mass at Loop Level
A. Maleknejad	Inflation From Non-Abelian Gauge Fields
A. Moshaii	Experiences with RPC Detectors in Iran and their Potential Applications
A. Esmaili	Sterile Neutrinos and IceCube
H. Fritzsich	Composite Weak Bosons, Leptons and Quarks