

Workshop on Nuclear Fusion with Polarized Fuel

For the PolFusion → the PREFER Collaboration



Monday 2 October Conference room at Hotel Europa

9:00	<i>Welcome</i>	Giuseppe Ciullo
9:30	<i>Introduction to fusion with polarized fuel and where we are and where we are going through the PolFusion and PREFER collaboration</i>	Markus Büscher

10:15 Coffee Break

10:45	<i>Progress of a polarized ^3He-laser target for the exploration of spin effects in laser-induced plasmas</i>	Ilhan Engin
11:30	<i>Spin-polarized hydrogen isotopes from UV molecular photodissociation, and nuclear-spin-polarized molecules from IR rovibrational excitation followed by hyperfine beating</i>	Peter Rakitzis

12:15 Buffet Lunch

14:00	<i>The status of the double polarized dd-fusion experiment</i>	Peter Kravtsov
14:45	<i>Developing simulation and analysis tools for the double polarized dd-fusion experiment</i>	Polina Kravchenko
15:30	<i>Status of preparations for a polarized-fuel demonstration experiment in the DIII-D tokamak</i>	Andrew M. Sandorfi

16:15/16:30 Coffee Break

17:00 Round Table and discussion on the first day

Tuesday 3 October Conference room at Hotel Europa

9:00	<i>Why is it so hard to polarize Nuclear Spin of solid Hydrogen Isotopes</i>	Jean-Pierre Didelez
9:45	<i>Production of polarized HD molecules in different spin states</i>	Ralf Engels

10:30 Coffee Break

11:00	<i>A transverse superconducting bulk magnet</i>	Marco Statera
11:45	<i>Experience with polarized hydrogen molecular source</i>	Dimitrii Toporkov

12:30 Buffet Lunch

14:15	<i>Open discussion and PREFER collaboration agreement</i>	
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16:00 Coffee Break and conclusion of the workshop