

ULT 2014 PROGRAMME (version 19/07/2014)

Friday, August 15

14:00	14:15	Welcome address	Chair: O. Vilches
14:15	15:00	Kirste A.	Provisional Low Temperature Scale 2000 (PLTS 2000): Status and prospects
15:00	15:30	Shibahara A.	Current sensing noise thermometry: a fast, practical solution to low temperature measurement
15:30	16:00	Enss C.	Precision Noise Thermometry for Temperatures well below 1 mK

16:00	16:30	<i>Coffe</i>
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Chair: A. Kirste

16:30	17:00	Heikkinen P.J.	Microkelvin thermometry in superfluid 3He-B with Bose- Einstein condensates of magnons
17:00	17:30	Todoshchenko I.	Superfluid 3He in a dry demagnetization cryostat
17:30	19:00		<i>Short talks - poster presentation</i>

19:30	20:30	<i>Dinner</i>
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20:30	21:00	O.E. Vilches	Following John Wheatley from Bariloche, to Illinois, to San Diego: his first dilution refrigerator
21:00	21:30	de la Cruz F. & M.E.	Low temperatures in Bariloche

Saturday, August 16

Chair: Y. Lee

09:00	09:45	Halperin W.P.	New phases of superfluid 3He in highly porous silica aerogel
09:45	10:30	Dmitriev V.V.	Phase diagram of superfluid 3He in high density "nematically ordered" aerogels

10:30	11:00	<i>Coffe</i>
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Chair: V. Dmitriev

11:00	11:30	Zhelev N.	Torsion pendulum experiments with superfluid 3He embedded in "Nematically Ordered" Aerogel
11:30	12:00	Levitin L.	Recent results on superfluid 3He confined in nanoscale slab geometries
12:00	12:30	Mizushima T.	Confinement effect on Anderson-Higgs modes in superfluid 3He-B

12:30	14:00	<i>Lunch</i>
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Chair: W. Halperin

14:00	14:45	Enss C.	Energy relaxation and decoherence of atomic tunneling systems in amorphous solids at ultra-low temperatures
14:45	15:30	Fefferman A.	Dislocation networks in 4He crystals
15:30	16:00	Todoshchenko I.	Stress-induced vacancies in 4He crystals

16:00	16:30	<i>Coffe</i>
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Chair: J. Parpia

16:30	17:00	Collin E.	Fundamental nonlinear phenomena in nano-mechanical devices
17:00	17:30	Lulla K.	A superconducting quantum interference device based detection of nanomechanical motion at millikelvin temperatures
17:30	18:00	Lee Y.	MEMS-based probe for the study of Quantum Fluids
18:00	18:30	Hakonen P.J.	Suspended carbon nanotube resonators at ultra low temperatures

19:30	20:30	<i>Dinner</i>
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20:30	21:30		Poster session
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Sunday , August 17

Chair: P. Skyba

09:00	09:45	Tsepelin V.	Quantum turbulence imaging in superfluid 3He-B using quasiparticles
09:45	10:30	Heikkinen P.J. / Eltsov V.B.	Magnon BEC at the free surface of topological superfluid 3He-B

10:30	11:00	<i>Coffe</i>
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Chair: O. Ishikawa

11:00	11:30	Zmeev D.E.	Quantum turbulence in superfluid 4He generated by various means
11:30	12:00	Haley R.P.	Quantum turbulence around a quartz tuning fork in superfluid 4He at very low temperatures
12:00	12:30	Woods A.J.	Frequency spectrum of quantum turbulence fluctuations in superfluid 3He-B

12:30	14:00	<i>Lunch</i>
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14:00	19:30	Excursion
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19:30	20:30	<i>Dinner</i>
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20:30	21:30		Poster session
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Monday, August 18

Chair: P. Hakonen

09:00	09:30	Kono K.	Surface ions to study chirality of superfluid 3He-A
09:30	10:00	Skyba P.	Probing surface bound states in superfluid 3He-B by mechanical resonators
10:00	10:30	Haley R.P.	Orbital dynamics of superfluid 3He-B close to the A-B interface

10:30	11:00	<i>Coffe</i>
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Chair: K. Kono

11:00	11:30	Autti S.	Magnon bound states close to surfaces in superfluid 3He-B
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11:30	12:00	Yudin A.N.	Coherent spin precession in polar phase of superfluid ^3He
12:00	12:30	Takeuchi H.	Topological possibility of defect formation from interface annihilation in superfluid ^3He

12:30	14:00	<i>Lunch</i>	
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Chair: S. Hernández

14:00	14:45	Lichtenegger T.	The dynamic structure of quantum liquids
14:45	15:15	Takeuchi H.	Countersuperflow turbulence in binary Bose-Einstein condensates
15:15	16:00	Liu Ying	Doubly connected nanoscopic superconductors and the observation of the Little-Parks-de Gennes effect

16:00	16:30	<i>Coffe</i>	
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Chair: J. Saunders

16:30	16:55	Matsushita T.	One-dimensional quantum ^3He fluid in nanochannels examined by the susceptibility
16:55	17:20	Arnold F.	Low frequency SQUID-NMR investigation of the density driven Mott-Hubbard transition in two-dimensional ^3He on ^4He preplated graphite
17:20	17:45	Nakamura S.	Quantum Effects on 2D Solidification of Helium Isotopes
17:45	18:10	Godfrin H.	Phase transitions in two-dimensional systems: from Fermi liquid to Mott-Hubbard localization
18:10	18:35	Vilches O.	The adsorption of simple gases on individual, single-wall suspended carbon nanotubes

19:30	20:30	<i>Dinner</i>	
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Tuesday, August 19

Departure