

Pres. Author	Title	University	Authors
--------------	-------	------------	---------

J. Wheatley Memorial session

Vilches O. E.	Following John Wheatley from Bariloche, to Illinois, to San Diego: his first dilution refrigerator	Seattle	Oscar E. Vilches
de la Cruz F.	TBA (Low temperatures in Bariloche)	Bariloche	de la Cruz F.

ORAL PRESENTATIONS

1	Arnold F.	Low frequency SQUID-NMR investigation of the density driven Mott-Hubbard transition in two-dimensional ^3He on ^4He preplated graphite	London	F. Arnold, B. Yager, J. Nyéki, B.P. Cowan, J. Saunders
2	Autti S.	Magnon bound states close to surfaces in superfluid $^3\text{He-B}$	Helsinki	S. Autti, V.B. Eltsov, P.J. Heikkinen and V.V. Zavjalov
3	Collin E.	Fundamental nonlinear phenomena in nano-mechanical devices	Grenoble	E. Collin, M. Defoort, K.J. Lulla and O. Bourgeois
4	Dmitriev V.V.	Phase diagram of superfluid ^3He in high density "nematically ordered" aerogels	Kapitza	V.V. Dmitriev, A.A. Senin, A.A. Soldatov, A.N. Yudin
5	Enss C.	Precision Noise Thermometry for Temperatures well below 1 mK	Heidelberg	D. Rothfuß, A. Reiser, A. Fleischmann, C. Enss
6	Enss C.	Energy Relaxation and Decoherence of Atomic Tunneling Systems in Amorphous Solids at Ultra-low Temperatures	Heidelberg	M. Wolter, C. Schötz, F. Ahrens, G. Ruyters. A. Reiser, A. Fleischmann, C. Enss

7	Fefferman A.	Dislocation Networks in 4He Crystals	Paris	A. Fefferman, F. Souris, A. Haziot, J. Beamish, S. Balibar
8	Godfrin H.	Phase transitions in two-dimensional systems: from Fermi liquid to Mott-Hubbard localization	Grenoble	A. Sultan, E. Collin, H. Godfrin
9	Hakonen P.J.	Suspended carbon nanotube resonators at ultra low temperatures	Helsinki	J.-P. Kaikkonen, P. Häkkinen, A. Savin and P.J. Hakonen
10	Haley R.P.	Orbital dynamics of superfluid 3He-B close to the A-B interface	Lancaster	M. Arrayas, S.N. Fisher, R.P. Haley, G. R. Pickett, M. Skyba
11	Haley R.P.	Quantum turbulence around a quartz tuning fork in superfluid 4He at very low temperatures	Lancaster	D.I. Bradley, M.J. Fear, S.N. Fisher, A.M. Guénault, R.P. Haley, C.R. Lawson, G.R. Pickett, R. Schanen, V. Tsepelin, L.A. Wheatland
12	Halperin W.P.	New phases of superfluid 3He in highly porous silica aerogel	Northwestern	W.P. Halperin, J.I.A. Li, A.M. Zimmerman, J. Pollanen, and C.A. Collett
13	Heikkinen P.J.	Microkelvin thermometry in superfluid 3He-B with Bose-Einstein condensates of magnons	Helsinki	P.J. Heikkinen, S. Autti, V.B. Eltsov, R.P. Haley, V.V. Zavjalov
14	Heikkinen P.J. / Eltsov V.B.	Magnon BEC at the free surface of topological superfluid 3He-B	Helsinki	V.B. Eltsov, S. Autti, P.J. Heikkinen, V.V. Zavjalov
15	Kirste A.	Provisional Low Temperature Scale 2000 (PLTS 2000): Status and prospects	Berlin	A. Kirste, J. Engert, M. Regin, J. Fischer, T. Schurig

16	Kono K.	Surface ions to study chirality of superfluid $^3\text{He-A}$	Riken	H. Ikegami, Y. Tsutsumi, K. Kono
17	Lee Y.	MEMS-based Probe for the Study of Quantum Fluids	Florida	Y. Lee, P. Zheng, W.G. Jiang, C.S. Barquist, H. B. Chan
18	Levitin L.	Recent results on superfluid ^3He confined in nanoscale slab geometries	London	L.V. Levitin, B. Yager, L. Sumner, A. Casey, B. Cowan, N. Zhelev, R.G. Bennett, J.M. Parpia, J. Saunders
19	Lichtenegger T.	The dynamic structure of quantum liquids	Linz/Buffalo	T. Lichtenegger, E. Krotscheck
20	Liu Ying	Doubly connected nanoscopic superconductors and the observation of the Little-Parks-de Gennes effect	Penn St. / Shanghai	Ying Liu
21	Lulla K.	A superconducting quantum interference device based detection of nanomechanical motion at millikelvin temperatures	London / Grenoble	K.J. Lulla, M. Defoort, O. Bourgeois, E. Collin, A. Casey, J. Saunders
22	Matsushita T.	One-dimensional quantum ^3He fluid in nanochannels examined by the susceptibility	Nagoya	Taku Matsushita, Katsuya Kurebayashi, Ryosuke Kawai, Mitsunori Hieda, Nobuo Wada
23	Mizushima T.	Confinement effect on Anderson-Higgs modes in superfluid $^3\text{He-B}$	Okayama / Northwestern	Takeshi Mizushima, James A. Sauls
24	Nakamura S.	Quantum Effects on 2D Solidification of Helium Isotopes	Tokyo	S. Nakamura and H. Fukuyama

25	Shibahara A.	Current sensing noise thermometry: a fast, practical solution to low temperature measurement	London, Berlin, Oxford	A. Shibahara, H. Van der Vliet, F. Arnold, L.V. Levitin, B. Yager, A. Casey, J. Nyeki, C.P. Lusher, J. Saunders, T.H. Schurig, D. Drung, M.N. Cuthbert, A.J. Matthews, G. Batey
26	Skyba P.	Probing surface bound states in superfluid $^3\text{He-B}$ by mechanical resonators	Košice	M. Človečko, E. Gažo, M. Kupka, M. Skyba, P. Skyba
27	Takeuchi H.	Countersuperflow turbulence in binary Bose-Einstein condensates	Osaka	Hiromitsu Takeuchi, Shungo Ishino, Makoto Tsubota
28	Takeuchi H.	Topological possibility of defect formation from interface annihilation in superfluid ^3He	Osaka, Nagoya	Hiromitsu Takeuchi, Shingo Kobayashi
29	Todoshchenko I.	Stress-induced vacancies in ^4He crystals	Helsinki, Lancaster, Košice, Haifa	I. Todoshchenko, S.L. Ahlstrom, D.I. Bradley, M. Clovecko, S.N. Fisher, A.M. Guénault, E.A. Guise, R.P. Haley, M. Kumar, P.V.E. McClintock, G.R. Pickett, E. Polturak, M. Poole, V. Tsepelin, A.J. Woods
30	Todoshchenko I.	Superfluid ^3He in a dry demagnetization cryostat	Helsinki	I. Todoshchenko, J.-K. Kaikkonen, R. Blaauwgeers, P.J. Hakonen, A. Savin
31	Tsepelin V.	Quantum turbulence imaging in superfluid $^3\text{He-B}$ using quasiparticles	Lancaster	S.L. Ahlstrom, D.I. Bradley, S.N. Fisher, E.A. Guise, R.P. Haley, G.R. Pickett, M. Poole, V. Tsepelin, A.J. Woods

32	Vilches O.	The adsorption of simple gases on individual, single-wall suspended carbon nanotubes	Seattle	Hao-Chun Lee, Boris Dzyubenko, Dennise Schultz, David H. Cobden, Oscar E. Vilches
33	Woods A.J.	Frequency spectrum of quantum turbulence fluctuations in superfluid $^3\text{He-B}$	Lancaster	A.J. Woods, S.L. Ahlstrom, D.I. Bradley, S.N. Fisher, A.M. Guénault, E.A. Guise, R.P. Haley, G.R. Pickett, M. Poole and V. Tsepelin
34	Yudin A.N.	Coherent spin precession in polar phase of superfluid ^3He	Kapitza	V.V. Dmitriev, A.A. Senin, A.A. Soldatov, A.N. Yudin
35	Zhelev N.	Torsion pendulum experiments with superfluid ^3He embedded in "Nematically Ordered" Aerogel	Cornell	N. Zhelev, A.T. Sebastian, E.N. Smith, J.M. Parpia
36	Zmееv D.E.	Quantum turbulence in superfluid ^4He generated by various means	Lancaster, Manchester, Birmingham	D.E. Zmееv, P.M. Walmsley, A.I. Golov, S.N. Fisher, P.V.E. McClintock, W.F. Vinen

POSTERS

1	Ahlstrom S.L.	Imaging quasiparticle beams created by a vibrating wire and a black body radiator in superfluid $^3\text{He-B}$	Lancaster	S.L. Ahlstrom, D.I. Bradley, S.N. Fisher, A.M. Guénault, E.A. Guise, G.R. Pickett, R.P. Haley, M. Poole, R. Schanen, V. Tsepelin, A.J. Woods
2	Barquist C.S.	Characterization of a Micro-Electro-Mechanical Oscillator for the Study of Quantum Fluids	Florida / HKong	C.S. Barquist, J. Bauer, T. Edmonds, P. Zhang, W.G. Jiang, M. Gonzalez, Y. Lee and H.B. Chan

3	Beauvois K.	Multi-particle excitations in superfluid ^4He investigated by neutron scattering	Grenoble, Oak Ridge	A. Sultan, K. Beauvois, B. Fak, J. Ollivier, H-J. Lauter, H. Godfrin
4	Choi H.	Construction of a cryogen-free nuclear demagnetization cryostat for ultra low temperature experiments	KAIST	HeeSu Byun, Kitak Kim, B.-Y. Oh, H. Choi
5	Človečko M.	Vacuum Properties of High Quality Value Tuning Fork in High Magnetic Field up to 8 Tesla and at mK Temperatures	Košice	M. Človečko, M. Kupka, P. Skyba, F. Vavrek
6	Collin E.	Probing Bogoliubov QP in superfluid ^3He with a 'vibrating-wire like' MEMS device	Grenoble / Lancaster	M. Defoort, S. Dufresnes, H. Godfrin and E. Collin ; S.L. Ahlstrom, A. J. Woods, E.A. Guise, M. Poole and S.N. Fisher
7	Fear M.	Searching for effects in solid helium due to DC rotation	Manchester	Matthew Fear, Paul Walmsley, Jere Makinen, Dmitry Zmeev, Louis Lu, Andrei Golov
8	Heikkinen P.J.	Coherent excited states in a magnon trap in $^3\text{He-B}$	Helsinki	V.V. Zavjalov, V.B. Eltsov, S. Autti, P.J. Heikkinen
9	Kimura Y.	Half-Quantum Vortex in superfluid $^3\text{He-A}$ phase under a magnetic field	Osaka	Y. Kimura, T. Kunimatsu, K. Obara, H. Yano, T. Hata, T. Takagi, O. Ishikawa
10	Marakov A.	Flow Visualization in Superfluid helium-4 using a thin line of He_2 excimer tracers	Florida, Yale, Birmingham	Alex Marakov, Jian Gao, Wei Guo, Steven W. Van Sciver, Gary G. Ihas, Daniel N. McKinsey, William F. Vinen

11	Obara K.	Development of fiber-optic probe hydrophone for liquid and vapor helium	Osaka	K. Obara, H. Ohmura, Y. Chiba, H. Yano, O. Ishikawa and T. Hata
12	Souris F.	Dependence of dislocation damping on helium-3 concentration in helium-4 crystals	Paris	F. Souris, A. Fefferman, A. Haziot, J. Beamish, S. Balibar
13	Tsepelin V.	Crossover from hydrodynamic to acoustic drag on quartz tuning forks in liquid 4He and 3He	Lancaster	S.L. Ahlstrom, D.I. Bradley, S.N. Fisher, E.A. Guise, R.P. Haley, G.R. Pickett, M. Poole, V. Tsepelin, A.J. Woods
14	Tsepelin V.	Turbulent drag on quartz tuning forks in superfluid 4He	Lancaster	S.L. Ahlstrom, D.I. Bradley, S.N. Fisher, E.A. Guise, R.P. Haley, G.R. Pickett, M. Poole, V. Tsepelin, A.J. Woods
15	Wakasa Y.	Power dependence of vortex emissions generated by vibrating wire in superfluid 4He at finite temperature	Osaka	Y. Wakasa, S. Oda, Y. Chiba, K. Obara, H. Yano, O. Ishikawa and T. Hata
16	Yui S.	Thermal Counterflow with Normal Fluid Laminar Flow in a Rectangular Channel	Osaka	S. Yui, M. Tsubota
17	Zema E.	Images of superfluid vortices in oscillatory flows of He-4	Bariloche	Elisa Zemma, Javier Luzuriaga
18	Zhelev N.	Thermal Conductivity of 3He in Nematic Aerogel (along strands).	Cornell	N. Zhelev, S. Shi, E.N. Smith and J.M. Parpia