

Programme

Wednesday, 20 June

19:00 *Welcome reception at Internationales Wissenschaftsforum*

Thursday, 21 June

09:00 *Opening*

Chair: K. Huang

09:20 Joe Vinen (Birmingham)

An Introduction to superfluidity and quantum turbulence

10:10 Carlo Barenghi (Newcastle)

Quantum vortices and their reconnections

10:50 *Coffee/Tea*

Chair: S. Nazarenko

11:40 Makoto Tsubota (Osaka)

Quantum hydrodynamics and turbulence in Bose-Einstein condensates

12:20 Gregory Falkovich (Rehovot)

Phase transitions in turbulence

13:00 *Lunch*

Chair: K. Fukushima

14:30 Ulrich Heinz (Columbus)

“Perfect fluidity” in relativistic heavy-ion collisions

15:10 Elena Bratkovskaya (Frankfurt)

Off-shell dynamical approach for relativistic heavy-ion collisions

15:50 *Coffee/Tea*

Chair: U. Heinz

16:30 Jean-Paul Blaizot (Saclay)

Thermalization of the quark-gluon plasma

17:10 Jürgen Berges (Heidelberg)

Turbulence and Bose condensation: from the early universe to cold atoms

17:50 *Evening at free disposition*

Friday, 22 June

Chair: J. Berges

09:00 Carlo Ewerz (EMMI)

The ExtreMe Matter Institute

09:20 Christof Wetterich (Heidelberg)

Prethermalization

10:10	Igor Tkachev (Moscow)	Turbulence in the early universe
10:50	<i>Coffee/Tea</i>	
		<i>Chair: J. Vinen</i>
11:40	Kerson Huang (Cambridge/Singapore)	A superfluid universe
12:20	Alberto Amo (Paris)	Superfluidity and hydrodynamic excitations in out of equilibrium polariton condensates
13:00	<i>Lunch</i>	
		<i>Chair: J.-P. Blaizot</i>
14:30	Johanna Stachel (Heidelberg)	The ALICE experiment at LHC (prelim.)
15:20	Brian Anderson (Tucson)	Two-dimensional quantum turbulence in Bose-Einstein condensates
16:00	Matthew Davis (Queensland)	Nonequilibrium Bose gases with c-fields
16:40	<i>Coffee/Tea</i>	
		<i>Chair: N. Berloff</i>
17:10	Andrei Golov (Manchester)	Turbulence in superfluid ^4He in the $T = 0$ limit
17:50	Michiel Wouters (Antwerpen)	c-field descriptions of nonequilibrium polariton condensates
18:30	<i>Dinner buffet and Posters</i>	

Saturday, 23 June

		<i>Chair: J. Schmiedmayer</i>
09:00	Sergej Demokritov (Münster)	Ground state and excitations (vortices and sound waves) in a Bose-Einstein condensate of magnons
09:50	Jonathan Keeling (St. Andrews)	Condensation, superfluidity and lasing of coupled light-matter systems
10:30	Hiroimitsu Takeuchi (Hiroshima)	Tachyon condensation in Bose-Einstein condensates
10:50	<i>Coffee/Tea</i>	
		<i>Chair: M. Tsubota</i>
11:40	Vladimir Eltsov (Aalto)	Bose-Einstein condensation of magnons in superfluid $^3\text{He-B}$ and its applications to vortex studies
12:20	Sergey Nazarenko (Warwick)	Wave turbulence in Bose-Einstein condensates
13:00	<i>Lunch</i>	
		<i>Chair: L. McLerran</i>
14:30	Gora Shlyapnikov (Orsay)	Novel physics with polar molecules
15:20	Kenji Fukushima (Keio)	Instability in an expanding non-Abelian system
16:00	Anton Rebhan (Wien)	Nonabelian plasma instabilities

16:30 *Coffee/Tea*
17:00 *Excursion*
20:00 *Conference dinner*

Sunday, 24 June

Chair: M. Davis

09:30 Vanderlei Bagnato (Sao Carlos) General characteristics and observation of a power law behavior on the kinetic energy spectrum of a turbulent BEC

10:10 Boris Nowak (Heidelberg) Nonthermal fixed points and superfluid turbulence

10:50 *Discussion Session*

11:30 *Coffee/Tea*

Chair: B. Anderson

12:00 Jörg Schmiedmayer (Wien) Relaxation in an isolated quantum system

12:40 *Lunch and Closing*