



Parallel - Session

Time	Monday	Tuesday	Wednesday I	Wednesday II	Thursday I	Thursday II	Friday
09:00		71	43	4	80	79	
	78	36	45	1	22	88	
	37	60	44	39	21	74	
	19	29	49	55	12		
			30	58			
11:00 - 11:30	Coffee Break						
	63	26	69	56	13		
	33	32	15	2	23		
	65	76	41	53	20		
		7		85	24		
13:00 - 14:00	Lunch Break						
	50	72	46	67	25		
	47	11	38	9	82		
	48	6	57	16	18		
	14	10	61	34	75		
16:00 - 16:30	Coffee Break						
	81	8	54	84	83		
	68	59	3	35	40		
	5	66	52	27	17		
		77	87	28	86		
18:00							

Registration
Opening Session
High Performance Computing (HPC)
Validation
Micro-Flows
Turbulence
MHD
Theory
Multiphase-Flows
Numerics
Applications
Courses

Monday

Talk No.	Duration	Author	Topic	Title
0	20	Litterst / Krafczyk	Opening Session	
78	40	d'Humières, Dominique	Theory	Knudsen layer in lattice Boltzmann methods
37	30	Piaud, Benjamin	Theory	Energy-conserving Lattice Boltzmann Thermal model (in 2 dimensions)
19	30	Seeger, Steffen	Theory	The Cumulant Method: Theory, Implementation and Numerics
Coffee Break				
63	40	Junk, Michael	Theory	Asymptotic analysis of the lattice Boltzmann method
33	20	Yang, Zhaoxia	Theory	Analysis and synthesis of lattice Boltzmann boundary conditions
65	30	Kapral, Raymond	Theory	Multi-Particle Dynamics of Reaction-Diffusion Systems
Lunch Break				
50	20	Adzhiev, Sergey	Multiphase	On size of lattice, used for discrete velocity models of the Boltzmann equation for mixtures
47	20	Dos Santos, Luís O. E.	Multiphase	Dynamics of interface displacement in capillary flow
48	20	Hegele, Luiz	Multiphase	Multiple-relaxation-time lattice Boltzmann model for immiscible fluids
14	20	Ho, Jeng-Rong	Multiphase	A lattice Boltzmann study of dynamics for a bubble in a liquid phase flowing in a 90-degree bent duct
51	20	Inoue, Yasuhiro	Multiphase	A mesoscopic simulation of blood flows in microcirculation
70	20	Mccracken, Michael	Multiphase	Multiple relaxation time, two-phase lattice Boltzmann methods and Applications
Coffee Break				
81	30	Aidun, Cyrus	Applications	TBA
68	30	Grün, Norbert	Applications	Industrial Applications of a Lattice-Boltzmann Code in Vehicle Aerodynamics
5	20	Kehrwald, Dirk	Applications	Lattice Boltzmann simulation of shear-thinning fluids
71	30	Ginzburg, Irina	Theory	Variably saturated flow described by Lattice Boltzmann advection and anisotropic dispersion equations

Tuesday

36	40	Philippi, Paulo	Theory	A new approach for establishing thermal lattice-Boltzmann models from the continuous Boltzmann equation
60	30	Serrano, Mar	Theory	A compressible fluid particle model based on the Voronoi tessellation
29	20	Jiang, Rui	Theory	A stopped time dependent randomization cellular automata model for traffic flow controlled by traffic light
Coffee Break				
26	20	Sofonea, Victor	Theory	Diffuse reflection boundary conditions for Lattice Boltzmann models
32	20	Caiazzo, Alfonso	Theory	Analysis of lattice Boltzmann Initialization routines
76	30	Mavriplis, Dimitri	Numerics	Multigrid Solution of the Steady-State Lattice Boltzmann Equation
7	20	Rheinländer, Martin	Numerics	Asymptotic Investigation of Lattice-Boltzmann Methods and Grid Coupling
Lunch Break				
72	30	Tölke, Jonas	Numerics	Adaptive LBE-Multiphase Flow simulations
11	30	Van Der Sman, Rudy	Numerics	Finite Boltzmann schemes
6	20	Banda, Mapundi	Numerics	Kinetic-based numerical schemes for incompressible Navier-Stokes Equations
10	20	Seaid, Mohammed	Numerics	Asymptotic-Preserving Schemes for Unsteady Flow Applications
73	20	Stiebler, Maik	Numerics	An Upwind Discretization Scheme for the Finite Volume LB-Method
Coffee Break				
8	30	Imamura, Taro	Numerics	Generalized form of Interpolation Supplemented Lattice Boltzmann Method with Local Time Stepping Technique
59	20	Valougeorgis, Dimitris	Numerics	A fast iterative synthetic LBM for steady flow Simulation

Wednesday I

66	20	Lehmann, Peter	Applications	Predicting water flow through the pore space of sand samples mapped with synchrotron radiation
77	20	Hoekstra, Alfons	Applications	Computational Hemodynamics with the Lattice Boltzmann Method
43	30	Körner, Carolin	Multiphase	Lattice Boltzmann Model for Free Surface Flow Including Gas Diffusion
45	20	Öchsner, Markus	Multiphase	Lattice Boltzmann Modeling of Foaming Process
44	20	Premnath, Kannan Nandh	Multiphase	A Lattice Boltzmann Scheme for Axisymmetric Multiphase Flows.
49	20	Stratford, Kevin	Multiphase	Lattice Boltzmann for Colloids in Binary Fluids
30	20	Zheng, Hongwei	Multiphase	Simulation of Non-sticking Multi-component Flow Ba Lattice Boltzmann Method
Coffee Break				
69	30	Medvedev, Dmitry	Applications	Lattice-Boltzmann method for simulating of the dendritic growth in external flows
15	30	Qi, Dewei	Applications	A new method of simulation of flexible fiber suspensions in finite Reynolds number flows
41	30	Marenduzzo, Davide	Applications	Lattice Boltzmann simulations of blue phases in cholesteric liquid equilibrium phase diagram and hydrodynamics
Lunch Break				
46	20	Thuerey, Nils	Applications	LBM simulation and Visualization of free surface flows in 3D
38	20	Brans, Gerben	Applications	3D Lattice Boltzmann sub-grid particle method for microfiltration
57	20	Brenner, Gunther	Applications	Application of the Lattice-Boltzmann Method for the Estimation of the 3D Permeability in Fabrics
61	20	Crouse, Bernd	Applications	Prediction of Wall Pressure Fluctuations using the Lattice Boltzmann Method
62	20	Fares, Ehab	Applications	Unsteady Flow Simulation of the Ahmed Reference Body using Lattice Boltzmann Approach
64	20	Gonella, Giuseppe	Applications	Hydrodynamical effects in Lamellar Ordering
Coffee Break				
54	30	Hvåluoma, Jari	Applications	Strain hardening in liquid-particle suspensions
3	20	Artoli, Abdel Monim	Applications	Limitations of LBGK for Non-Newtonian fluids
52	20	Iovine, Giulio	Applications	A rheology-derived CA model for simulating debris flows
87	30	Yong, Wen-An	Theory	No H-theorems for some lattice Boltzmann models

Wednesday II

4	40	Wellein, Gerhard	HPC	Optimization Approaches and Performance Characteristics of Lattice Boltzmann Kernels
1	20	Banaeizadeh, Araz	HPC	Parallel Numerical Simulation of Reactive Flow by Control Volume Based Finite Element Method
39	20	Niavarani Kheiri, Anoosheh	HPC	Parallelization of Lattice Boltzmann model in Thermohydrodynamics Problems and Simulating Natural Convection in Cavity
55	20	Wang, Junye	HPC	A new method of domain decomposition of complicated geometries
58	20	Pohl, Thomas	HPC	High Performance Lattice Boltzmann Applications on Supercomputers
Coffee Break				
56	30	Wilde, Andreas	Validation	Calculation of sound generation and radiation from turbulent flows
2	20	Van Treeck, Christoph	Validation	Validation studies of thermal turbulent flows
53	20	Mohammedi, Kamal	Validation	Lattice Boltzmann Discrete Simulation of a 2D Fluid Flow around Cylinders Array.
85	20	Beetstra, Renske	Applications	A lattice-Boltzmann Application study on the drag coefficient of clusters of spheres.
31	20	Barrios Del Valle, Guillermo	Validation	Lattice Boltzmann equation for natural convection in a two dimensional cavity with a partially heated wall
Lunch Break				
67	40	Jhon, Myung	Micro-Flows	Transport Process Modeling in a Nanoscale Confined System

Thursday I

9	30	Abu-Sharkh, Basel	Micro-Flows	Simulation of the Phase Diagram of Symmetric Triblock (A-B-A) Copolymers using DPD
16	30	Morinishi, Koji	Micro-Flows	Numerical Simulation fir Micro Gas Flows Using Boltzmann Equation
34	30	Saczuk, Jan	Micro-Flows	Structure-induced mesoscopic approach to complex media
Coffee Break				
84	30	Beskok, Ali	Micro-Flows	TBA
35	30	Shu, Chang	Micro-Flows	A Lattice Boltzmann Kinetic Model for Applulation of Micro Flows
27	30	Van Leemput, Pieter	Micro-Flows	The Coarse-Grained Time Stepper for a Lattice Boltzmann Model
28	30	Zhang, Yonghao	Micro-Flows	Lattice Boltzmann simulation of continuum and rarefied gas flow through microchannels

80	40	Girimaji, Sharath	Turbulence	Lattice Boltzmann applications for turbulent flows
22	20	Stawiarski, Krzysztof	Turbulence	Large eddy simulation of colliding monodispersed particles in forced isotropic turbulence
21	30	Jaberi, Farhad	Turbulence	LES/FMDF of Piloted Turbulent Methane Jet Flames
12	30	Ubertini, Stefano	Turbulence	Analysis of turbulent flow with LBM
Coffee Break				
13	20	Tosi, Francesca	Turbulence	The Lattice Boltzmann method for automotive applications
23	20	Richard, Jacques	MHD	Lattice-Boltzmann Models of Ion Thrusters
20	20	Tilgner, Andreas	MHD	Simulations of the dynamo effect with the lattice Boltzmann method
24	30	Breyiannis, George	MHD	Lattice kinetic simulations of 3D MHD turbulence
Lunch Break				
25	30	Dellar, Paul	MHD	Lattice kinetic formulation of ferrofluid dynamics
82	20	Beronov, Kamen	Applications	Progress towards simulation-based medical planning of intracranial aneurysm treatment, based on lattice Boltzmann DNS
18	20	Hlushkou, Dzmitry	Applications	Lattice-Boltzmann Simulation of Electroosmotic Flow in Sphere Packings
75	20	Lallemand, Pierre	Applications	Adjoint LBE code for optimal control: preliminary results
42	20	Qin, Rongshan	Applications	Lattice Boltzmann study of the effect of stirring on the migration rate of curved interfaces in binary slurries
Coffee Break				
83	30	Chopard, Bastien	Applications	Lattice Boltzmann simulation of bloodflow in stented aneurysms, non-Newtonian rheology and clotting processes
40	30	Hartmann, Hugo	Applications	Finite volume scalar mixing simulations with a lattice-Boltzmann Navier-Stokes solver
17	20	Latt, Jonas	Validation	Coupling a Lattice Boltzmann and finite difference scheme for fluid Applulations
86	30	Liu, Yang	Validation	LBM calculation for a 3D cylinder in a cross flow

Thursday II

79	20	Krafczyk, Manfred	Validation	Are LB methods efficient CFD solvers ?
88	20	Hölzer, Andreas	Validation	Determination of Forces Acting on Non-Spherical Particles by LBM and Derivation of a Correlation Formula for the Drag Coefficient
74	30	Luo, Li-Shi	Theory	LBE simulations: Initial conditions and Boundary conditions