

CECAM - Jülich Summer School 2011

Fast Methods for Long-Range Interactions in Complex Systems

	Monday 12 September	Tuesday 13 September	Wednesday 14 September	Thursday 15 September	Friday 16 September
9:00 – 10:30	Registration	<i>F. Gähler</i> Local Cutoff-Methods	<i>D. Potts</i> NFFT and Fast Summation	<i>P. Gibbon</i> Barnes-Hut Treecode	Practical Session Applications
10:30 – 10:45	Welcome	Coffee Break			
10:45 – 12:15	<i>N. Attig</i> Challenges in High Performance Computing	<i>M. Bolten</i> Multigrid Methods	<i>A. Arnold</i> Fourier Transform-Based and Optimal Methods P ³ M	<i>I. Kabadshow</i> Fast Multipole Method	Practical Session Applications
	<i>G.Sutmann</i> Classical Particle Simulations				N. Eicker The Future of Cluster Computing
12:15 – 13:30	Lunch Break				Final Remarks
					Lunch Break
13:30 – 14:15	<i>L. Arnold</i> Introduction to MPI	<i>R. Halver</i> ScaFaCoS Interface	B. Duenweg Local Approaches to Electrostatics	<i>M. Hofmann</i> Parallel Sorting	Departure
14:15 – 15:00	<i>L. Arnold</i> Practical Session MPI Tutorial	<i>R. Halver / F. Gähler</i> Practical Session ScaFaCoS Interface		<i>P. Gibbon / M. Winkel</i> Practical Session Barnes-Hut Treecode	
15:00 – 16:00			<i>D. Potts / M. Pippig</i> Practical Session NFFT and Fast Summation		<i>I. Kabadshow</i> Practical Session Experiences with FMM
16:00– 17:00			<i>O. Lenz / F. Fahrenberger</i> Practical Session Fourier Transform-Based and Optimal Methods and MEMD		
17:00– 17:30	Get-Together	Poster Presentation			
17:30 – 19:00		Poster Session			