



time	Monday, 03/09	Tuesday, 03/10	Wednesday, 03/11	Thursday, 03/12	Friday, 03/13
8 - 9					
9 - 10	Seminar introduction Fundamentals of large-eddy simulation	PALM - numerics and boundary conditions timestep- / advection-methods, pressure-solver, grid	PALM - program structure flow chart, important variables, machine dependencies	PALM - parallelization basics, domain decomposition, MPI communication, MPI-calls in PALM	PALM - the embedded Lagrangian particle model theory, application examples, setup requirements, data output and analysis
10 - 11	basic equations, subgrid-scale model	PALM - program control by physical parameters / model output parameter file, important output files	PALM - using non-cyclic boundary conditions motivation, setup requirements for non-cyclic boundary conditions, realization of turbulent inflow	PALM - debugging basics, examples	PALM - ocean version basics, equations, coupling of atmosphere and ocean model, examples
11 - 12	PALM - Overview	PALM - how to carry out runs with mrun way of operating, file management, configuration file	PALM - Using Topography realization of topography, setup requirements for flow around buildings and for comparison with wind tunnel data	PALM - user-defined code basics, interfaces, examples	PALM - how to carry out restart runs steering by parameter file and mrun, posing an exercise
lunch break					
13 - 14	PALM - installation using mbuild download, configuration, make, ssh-setup, interactive test run	PALM - how to carry out runs with mrun data analysis, NetCDF, graphics, posing an exercise (CBL)	PALM - Using Topography data analysis features, posing an exercise	PALM - how to add user-defined code posing an exercise	PALM - carrying out restart runs with mrun
14 - 15	PALM - installation	PALM - carrying out runs using mrun	PALM - carrying out runs with buildings	PALM - developing and testing user-defined code	
15 - 16					Final remarks Closing of seminar
16 - 17	Discussion of results / problems	Discussion of results / problems	Discussion of results / problems	Discussion of results / problems	 Leibniz Universität Hannover