

| Time | Day 1 | Day 2 | Day 3 | Day 4 |
|---------------|--|---|--|---|
| 10:00 – 10:30 | The Environment problem (Bader/Brietzke) | Generic type-bound procedures (Brietzke/Bader) | Interoperation with C (1) (Brietzke/Bader) | Advanced synchronization: Events and locks (Brietzke/Patel) |
| 10:30 – 11:00 | | | | |
| 11:00 – 11:30 | Dynamic memory and object-based design (Brietzke/Bader) | Advanced I/O topics: DTIO, asynchronous processing (Bader/Brietzke) | Interoperation with C (2) (Bader/Brietzke) | Coarray-related program design aspects (Patel/Brietzke) |
| 11:30 – 12:00 | | | | |
| 12:00 – 12:30 | Exercise Session 1 and Lunch Break | Exercise Session 3 and Lunch Break | Exercise Session 5 and Lunch Break | Exercise Session 7 and Lunch Break |
| 12:30 – 13:00 | | | | |
| 13:00 – 13:30 | | | | |
| 13:30 – 14:00 | Object oriented programming (1) Type extension and polymorphism (Bader/Brietzke) | Parameterized derived types | PGAS introduction and basic coarray features: declaration, communication, synchronization (Bader/Brietzke) | Composable parallelism with teams Coindexing rules Interoperation with MPI (Bader/Brietzke) |
| 14:00 – 14:30 | | Creation and destruction of objects (Brietzke/Bader) | | |
| 14:30 – 15:00 | Object oriented programming (2) Type- and object-bound procedures Dependency inversion with submodules (Brietzke/Bader) | Returning to the Environment problem (Bader/Brietzke) | Collectives dynamic memory management (Brietzke/Bader) | Fault tolerance (Bader/Brietzke) |
| 15:00 – 15:30 | | | | |
| 15:30 – 16:00 | Exercise Session 2 | Exercise Session 4 | Exercise Session 6 | Exercise Session 8 |
| 16:00 – 16:30 | | | | |
| 16:30 – 17:00 | | | | |
| 17:00 – 17:30 | | | | |

Additionally, there will be a 5-minute break between talks that take 1 hour or more.