Schedule for online MPI course

	Day 1
9:00	Welcome, general intro
9:10	Lecture: concept of parallel and MPI - Joachim
9:30	Demo/Tutorial: Running MPI
9:45	Lecture: Initialisation, Communicators - Joachim
10:30	*Break*
10:45	Demo: Hello world – by language (C: Joachim F: Pedro P: Xin)
11:00	Lecture: Point-to-point - Soheil
11:45	**Exercise**: Parallel code, collecting partial results: Pi as a sum (C: F: P:)
12:20	Questions and Warp-up
12:30	*Close*

	Day 2
9:00	Recap day 1
9:10	Lecture: Non-blocking and deadlock - Joachim
10:00	Demo: Message around a ring (C: Soheil F: Joachim P: Xin)
10:45	*Break*
11:00	Lecture: Collectives - Pedro
11:45	Live Coding: 2-D integration (Pedro leading, break-out sessions) (C: Roberto F: Pedro P: Xin/Joachim) Exercise PI using collectives
12:20	Questions and Wrap-up
12:30	*Close*

	Day 3
9:00	Demo of DDT debugger (use message around a ring as demo code - recap) - Joachim
9:45	Hands on DDT use DDT on your samples
10:30	*Break*
10:45	Lecture: Splitting Communicators - Soheil
11:15	Exercise: Collectives in sub-groups
12:20	Questions and Wrap-up
12:30	*Close*

	Day 4
9:00	Recap day 3
9:10	Lecture: Derived data and user defined reductions (C, C++, Fortran) –Joachim Lecture: Transferring NumPY objects in Python – Xin
9:45	Demo of derived data or user defined reductions – Joachim Demo Transferring NumPY objects in Python – Xin
10:30	Break
10:45	Lecture: MPI performance – Pedro
11:30	Exercise on performance
12:15	Wrap up/Questions
12:30	*Close*