AGENDA
Advanced School on Parallel Computing
12-16 February 2018
CINECA - Casalecchio di Reno (Bologna)

	Monday	Tuesday	Wednesday	Thursday	Friday
9.10 - 10.50	Introduction to massively parallel architectures, Overview of KNL (**Cavazzoni/Emerson**)	Advanced MPI (I) (**Affinito**)	Cuda Programming (**Zanella**)	Python for HPC (**Spallanzani**)	Intranode optimization (vectorization, cache blocking, software pipelining) (**Pascolo**)
	Coffee Break				
11.10 - 13.00	Overview of Accelerated architectures (**Bonfà**)	Advanced MPI (II) (**Affinito**)	CUDA Fortran and OpenACC (**Bonfà**)	Python for HPC (**Spallanzani**)	Domain specific libraries for PDEs (**Bnà**)
	Lunch				
14.30 - 16.10	Cineca HPC systems Introduction + Hands-on (**Marani**)	MPI hands-on (**Emerson/Guarrasi**)	Hands-on Work on codes (**Bonfà/Spallanzani/ Fatigati**)	hands-on Python for HPC (**Spallan./Mucci**)	Paraview and Catalyst in situ visualization (**Bnà/Calori**)
	Coffee Break				
16.30 - 18.20	Cineca HPC systems Introduction + Hands-on (**Marani**)	SE for HPC (continuous integration, versioning, etc) (**CINI**)	Domain specific libraries for Deep Learning (**Zanella**)	hands-on Python for HPC (**Spallan./Mucci**)	**Free**

NB: programme is subject to change.