Parallel Session 1   Sunday, July 1, 10:00AM-12:00PM

Special Session **79**	**Numerical Methods based on Homogenization and on Two-Scale Convergence** Organizer(s): Emmanuel Frenod	Location **POI-B**
10:00-10:30	Emmanuel Frenod (Universite de Bretagne Sud et Inria, France) Synthetic introduction to homogenization based numerical methods	Abstracts p. 295
10:30-11:00	Yun Bai (EPFL, Switzerland) Reduced basis finite element heterogeneous multiscale method	Abstracts p. 294
11:00-11:30	Patrick Henning (University of Münster, Germany) Error control for heterogeneous multiscale approximations of nonlinear monotone problems	Abstracts p. 296
11:30-12:00	Zakaria Habibi (Inria Lille, France) Reduced basis method in the numerical homogenization of a nonlinearly coupled system. Application to nuclear waste storage.	Abstracts p. 295