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# Advanced Workshop on High-Performance & High-Throughput Materials Simulations using Quantum ESPRESSO | (smr 3102)

## Wednesday 18 January 2017

**Day 3 -Wednesday, January 18**

**- Adriatico Guest House - Kastler Lecture Hall (09:00-18:30)**

time	title	presenter
09:00	Basics of ab-initio Molecular Dynamics: dynamics on the Born-Oppenheimer surface, energy conservation, ensembles, thermostats and barostats	S. SCANDOLO
10:30	Coffee Break	
11:00	Car-Parrinello Molecular Dynamics: adiabaticity, metals, thermostats and barostats, correlation times and averages	SCANDOLO, S.
12:30	Lunch Break	
14:00	Hands-on: Ab-initio Molecular Dynamics: starting the dynamics, computing averages	GIANNOZZI, P.
16:00	Coffee Break	
16:30	Hands-on: Ab-initio Molecular Dynamics: computing correlations and thermodynamic properties, using thermostats	GIANNOZZI, P.