ASESMA 2016 - PRELIMINARY Schedule of lectures and hands-on computer labs - as of 7th June

WEEK 1	13-Jun Monday	14-Jun Tuesday	15-Jun Wednesday	16-Jun Thursday	17-Jun Friday	18-Jun Saturday
Morning: 8:30 - 13:	:00					
8:30 - 10:30	<u>Registration</u>	Theory of DFT	Metals	Moving atoms at T≠0	Beyond Kohn-Sham	Excursion
	Welcome	Kohn-Sham approach	k-points, smearing	Molecular Dynamics.	DFT+U, etc.	
	Introduction	xc functionals.	Magnetism.	Sandro Scandolo	Nicola Marzari	
		Nicola Marzari	Omololu Akin-Ojo			
Break						
					Beyond DFT - excitati	ions
11:00 - 13:00	Crystals, Bloch Th.	Practice of DFT	Moving atoms at T=0	Atomic vibrations	Optical properties.	
	Bands, questions.	Through KS Eqs.	Forces, relaxation.	Phonons.	Matteo Gatti	
	Shobhana Narasimhan	Shobhana Narasimhan		Ryo Maezono	NPASSASIA	
		Adv. Participants: Tu d	iscussion of their work; W	-Th GW/BSE M. Gatti	Spin-orbit interaction	ns.
Lunch Break: 13:00 Afternoon: 14:00 -					Richard Martin	
14:00 - 16:00	Computer Lab	Computer Lab	Computer Lab	Computer Lab	ТВА	
14.00 10.00	Linux, Xmgrace,	Intro to QE - Total	Band structure	Phonons in	Discussion of project	c
	Xcrysden, etc.	energy, k-pts, cutoff.	metals/insulators.	quantum Espresso.	Presentation by parti	
	Florian Thöle	Nisha Mammen	Sinead Griffin	Tomohiro Ichiba	resentation by parti	icipants
	and Mentors/Tutors	and Mentors/Tutors	and Mentors/Tutors	and Mentors/Tutors		
Break	a.i.aa.i.a.i.a, . a.a.i.a	ana memera, ratera		u.uee, , u.e		
16:30 - 18:30	Computer Lab	Computer Lab	Computer Lab	Computer Lab	continued	
	Continued	Continued	Continued	Continued		
Evening						

TBA

Discussion

TBA

Discussion

TBA

Discussion

Time TBA

TBA

TBA

Discussion

TBA

Discussion

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Week 2 - VERY TENTATIVE

WEEK 2	20-Jun Monday	21-Jun Tuesday	22-Jun Wednesday	23-Jun Thursday	24-Jun Friday			
Morning: 8:30 - 13:00 8:30 - 10:30	TDDFT Mark Casida	Tutorial on MD Ali Hassanali	Lecture Short - related to a project	Lecture Short - related to a project	Projects			
Break								
11:00 - 13:00	TDDFT continued	MD Continued	Projects	Projects	Projects			
Lunch Break: 13:00 - 14:00								
Afternoon: 14:00 - 18:30 14:00 - 16:00	Start Projects	Projects	Projects	Short project reports	Short project reports			
Break								
16:30 - 18:30	Projects	Projects	Projects	Projects	Projects			
Evening TBA TBA	TBA Discussion	TBA Discussion	TBA Discussion	TBA Discussion	Future! Discussion			