

Topical meeting of IRENA - FA1 and ChETEC-INFRA: Nuclear reaction measurements in Underground Laboratories

Remote talks are in blue. In-person talks are in black.

Schedule as of 4 April 2022

Tuesday April 5					
Session [Chair]	Time (CEST)	Talk+Q&A (min)	Speaker (Affiliation)	[Remote Speaker Time Zone]	Topic
1: H-burning, Experiment [Gianluca Imbriani]	10:10	10	Zach Meisel & Daniel Bemmerer		Welcome
	10:20	15+5	Rosanna Depalo (LUNA Milan)		Stellar H-burning with LUNA
	10:40	15+5	Richard Longland (NC State, TUNL)		H-burning at LENA
	11:00	15+5	Michael Wiescher (Notre Dame)		Recent results from CASPAR
	11:20	20	<i>Break</i>		
2: H-burning, Theory [Daniel Bemmerer]	11:40	15+5	Daniel Phillips (Ohio U)		EFT & Bayesian methods for solar fusion
	12:00	15+5	Laura Marcucci (Pisa)		Ab initio studies of few-nucleon systems for astrophysics
	12:20	15+5	Ofelia Pisanti (INFN Naples)		Big Bang Nucleosynthesis
	12:40	15+5	Maria Lugaro (Konkoly Observatory) [CEST]		Constraining H-burning with meteorites
	13:00	90	<i>Lunch</i>		
3: H-burning III [Michael Wiescher]	14:30	10+2	Carlo Gustavino (INFN Roma)		BBN at LUNA
	14:42	10+2	Tamas Szucs (ATOMKI)		$^3\text{He}(a,g)$ for BBN and the pp chain
	14:54	adjourn formal part of day			

Wednesday April 6					
Session	Time (CEST)	Talk+Q&A (min)	Speaker (Affiliation)	[Remote Speaker Time Zone]	Topic
4: He-burning I [Richard Longland]	10:00	15+5	Morgan Chidester (ASU) [MST, CEST-9]		$^{12}\text{C}(a,g)$ and white dwarf seismology
	10:20	15+5	Jack Bishop (TAMU) [BST, CEST-1]		Indirect measurements at TAMU
	10:40	15+5	Lucio Gialanella (Naples)		Direct measurements at CIRCE
	11:00	15+5	Ivano Lombardo (INFN Catania)		The Hoyle state and triple-alpha process
	11:20	15+5	James deBoer (Notre Dame)		R-Matrix analyses of $^{13}\text{C}(a,n)$
	11:40	20	<i>Break</i>		
5: He- burning II [Aurora Tumino]	12:00	15+5	Oscar Straniero (INAF)		Helium burning and beyond
	12:20	15+5	Jianjun He (Beijing NU) [Beijing, CEST+6]		$^{19}\text{F}(p,ag)$ at JUNA
	12:40	15+5	Weiping Liu (CIAE) [Beijing, CEST+6]		JUNA vision/program
	13:00	90	<i>Lunch</i>		
6: Below Ground Programs [Lucio Gialanella]	14:30	15+5	Axel Boeltzig (HZDR)		Opportunities at Felsenkeller
	14:50	15+5	Michael Wiescher (Notre Dame)		CASPAR: the vision for a future
	15:10	15+5	Antonino diLeva (LNGS) [CEST]		Outlook on LUNA-MV program
	15:30	15+5	Matthias Junker (LNGS)		Outlook of the LNGS Accelerator facility
	15:50	20	<i>Break</i>		
7: Discussion	16:10	90	Leaders: Marialuisa Aliotta & Alba Formicola		Focus on $^{12}\text{C}(a,g)$
	17:40	adjourn formal part of day			

Thursday April 7					
Session	Time (CEST)	Talk+Q&A (min)	Speaker (Affiliation)	[Remote Speaker Time Zone]	Topic
8: C-burning, Experiment [Phil Adsley]	10:00	15+5	Aurora Tumino (Kore University)		Indirect measurements for $^{12}\text{C}+^{12}\text{C}$ fusion
	10:20	15+5	Wanpeng Tan (Notre Dame)		Recent direct measurements of carbon fusion
	10:40	15+5	Liz Morales-Gallegos (INFN) [CEST]		$^{12}\text{C}+^{12}\text{C}$ with the GASTLY array
	11:00	15+5	Sandrine Courtin (IPHC Strasbourg) [CEST]		$^{12}\text{C}+^{12}\text{C}$ results from the STELLA collaboration
	11:20	20	<i>Break</i>		
9: C-burning, Theory [Annika Lennarz]	11:40	15+5	Masaaki Kimura (Hokkaido) [JST, CEST+7]		$^{12}\text{C}+^{12}\text{C}$ S-factor with a fully microscopic model
	12:00	15+5	Leandro Gasques (Sao Paulo)		Inelastic couplings for sub-barrier $^{12}\text{C}+^{12}\text{C}$
	12:20	15+5	Alessandro Chieffi (INAF)		Role of $^{12}\text{C}+^{12}\text{C}$ in massive star evolution
	12:40	15+5	Ed Brown (MSU) [EST, CEST-6]		X-ray superbursts
	13:00	90	<i>Lunch</i>		
10: C-burning III [Annika Lennarz]	14:30	15+5	Akram Mukhamedzhanov (TAMU) [CDT, CEST -7]		THM constraint for $^{12}\text{C}+^{12}\text{C}$
11: Discussion	14:50	90	Leaders: Zach Meisel & Rene Reifarth		Focus on $^{12}\text{C}+^{12}\text{C}$
	16:20	adjourn formal part of day			

Friday April 8					
Session	Time (CEST)	Talk+Q&A (min)	Speaker (Affiliation)	[Remote Speaker Time Zone]	Topic
12: Neutron Sources I [James deBoer]	10:00	15+5	Amanda Karakas (Monash) [AEST, CEST+10]		Asymptotic giant branch stars
	10:20	15+5	Andreas Best (Naples)		Neutrons deep underground
	10:40	15+5	Annika Lennarz (TRIUMF)		Direct measurements with DRAGON
	11:00	15+5	Marco LaCognata (INFN Catania)		Concordance scenario for the $^{13}\text{C}(a,n)$ s-factor
	11:20	15+5	Phil Adsley (TAMU)		Indirect measurements of $^{22}\text{Ne}+a$
	11:40	20	<i>Break</i>		
13: Neutron Sources II [Leandro Gasques]	12:00	15+5	Marek Ploszajczak (GANIL)		Near-threshold cluster resonances
	12:20	15+5	Marco Pignatari (Konkoly Observatory)		The s-process in stars and (a,n) reactions
	12:40	15+5	Aldo Serenelli (Barcelona) [CEST]		H-burning in stellar cores and shells
	13:00	90	<i>Lunch</i>		
14: Neutron Sources III [Matthias Junker]	14:30	15+5	Xiadong Tang (IMP) [EST, CEST-6]		(a,n) at JUNA
	14:50	10+2	Mario Cirillo (INAF)		AGB stars at low-metallicity
	15:02	10+2	Lorenzo Roberti (Konkoly)		S-process at low metallicity
	15:14	10+2	David Rapagnani (INFN Naples)		$^{13}\text{C}(a,n)$ R-Matrix analysis
	15:26	10+2	Erin White (MSU)		The SAM project and $^{22}\text{Ne}(a,n)$
	15:38	12	<i>Break</i>		
15: Discussion	15:50	90	James Deboer & Aurora Tumino		Focus on $^{13}\text{C}(a,n)$ and $^{22}\text{Ne}(a,n)$
	17:20	adjourn formal part of day			