



17th Russbach School on Nuclear Astrophysics

Certificate of Attendance

To whom it may concern, we certify that

Mr. Sándor Kovács

participated to the 17th Rußbach School on Nuclear Astrophysics, which was held in Rußbach (Austria) from March 13th to March 19st, 2022.

Rußbach, March 13th, 2022

The organizers

S. Reu



IN2P3
Les deux infinis



Time	Monday, March 14, 2022	Chair	Tuesday, March 15, 2022	Chair	Wednesday, March 16, 2022	Chair	Thursday, March 17, 2022	Chair	Friday, March 18, 2022	Chair	Time															
8:30	Sorlin (2): Welcome	Olivier Sorlin	Matej Lipoglavsek (50+10)	Konrad Schmidt	Jérôme Guilet (50+10)	Marco La Cognata	János Kodolányi (50+10)	Roland Diehl	<i>start at 9:10</i>	Georg Rugel	8:30															
8:40	Kratz (18): Review on past Russbach schools		Nuclear reactions in normal versus inverse kinematics		Core-Collapse Supernovae (part 2)		Presolar Grains – A General Introduction				8:40															
8:50	Sara Palmerini (50+10)										8:50															
9:00	Stellar evolution (Part 1)										9:00															
9:10												9:10														
9:20												9:20														
9:30	Dijana Đeordić (17+3)		Sébastien Martinet (17+3)		Erin White (17+3)		Progress in understanding the stellar initial mass function in star-forming regions and whole galaxies (part 2)				9:30															
9:40									Electron Screening in Nuclear Reactions		Short-lived radionuclei in very massive stars		Progress Towards a Single Atom Microscope for Nuclear Astrophysics		9:40											
9:50	Coffee break (30)										9:50															
10:00											10:00															
10:10											10:10															
10:20	Sara Palmerini (50+10)	Olivier Sorlin	Ása Skúladóttir (50+10)	Konrad Schmidt	Aurora Tumino (50+10)	Marco La Cognata	Francois de Oliveira Santos (50+10)	Roland Diehl	Coffee break (30)		10:10															
10:30	Stellar evolution (Part 2)		Evidence for ≥ 4 Gyr timescales of neutron star mergers from Galactic archaeology		Resonant $^{12}\text{C}+^{12}\text{C}$ fusion at astrophysical energies		A textbook case in experimental nuclear astrophysics: The $18\text{F}(\alpha,\text{p})15\text{O}$ reaction		Georg Rugel	10:20																
10:40										10:40																
10:50										10:50																
11:00										11:00																
11:10										11:10																
11:20	Gerrit Leck (17+3)		Chiranjib Mondal (17+3)		Jean Nippert (17+3)		Maria Markova (17+3)			Comprehensive Test of the Brink-Axel Hypothesis in the Energy Region of the Pygmy Dipole Resonance		11:20														
11:30	Simulating kilonova spectra with detailed atomic opacities	11:30																								
11:40	Tibor Norbert Szegedi (17+3)						Wanja Paulsen (17+3)			Hoa Dinh Thi (17+3)		11:40														
11:50	Experimental study of the $^{92,94}\text{Mo}(\alpha,\text{n})$ and $^{92}\text{Mo}(\alpha,\text{p})$ reactions by γ -spectroscopy											11:50														
12:00	Lunch break (excursions etc.) (240)										12:00															
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15:50											15:50															
16:00	A. Boeltzig (50+10)	Sara Palmerini	Karl-Ludwig Kratz (50+10)	Matej Lipoglavsek	Marco La Cognata (50+10)	Aurora Tumino	Trip to Hallstatt by public buses 12:19 Russbach Buses 470, 542, and 543 13:24 Hallstatt 16:12 Hallstatt Buses 543, 542, 470 16:57 Russbach		Karl-Ludwig Kratz (50+10)	Pavel Kroupa	16:00															
16:10	Nuclear astrophysics in underground laboratories		R-process nucleosynthesis (part 1)		Recent results in nuclear astrophysics with indirect methods						16:10															
16:20											16:20															
16:30											16:30															
16:40											16:40															
16:50											16:50															
17:00	Sándor Kovács (17+3)		Francesco Pogliano (17+3)		Filippo Angelini (17+3)				Marta Molero (17+3)		17:00															
17:10	Measuring the half-life values for exotic rare-earth isotopes	Indirect measurements of neutron capture rates for astrophysical i-process	Study of the interplay between the nuclear charge and the energy loss in the FALSTAFF spectrometer	Evolution of neutron capture elements in dwarf galaxies	17:10																					
17:20	Coffee break (30)										17:20															
17:30											17:30															
17:40											17:40															
17:50	Laura Magrini (50+10)	Sara Palmerini	Jérôme Guilet (50+10)	Matej Lipoglavsek	Georg Rugel (20)	Aurora Tumino	Pavel Kroupa (50+10)	Francis de Oliveira Santos	Louis Wagner (35+5)	Pavel Kroupa	17:50															
18:00	GAIA-ESO survey: origin and evolution of neutron capture elements		Core-Collapse Supernovae (part 1)		In memory of Shawn Bishop		Progress in understanding the stellar initial mass function in star-forming regions and whole galaxies (part 1)		Direct measurement of $^{56}\text{Ni}(\alpha,\text{p})^{59}\text{Cu}$ to improve X-ray burst models		18:00															
18:10											18:10															
18:20					Georg Rugel (35+5)						18:20															
18:30											18:30															
18:40											18:40															
18:50	Henriette Wirth (17+3)		David Aguado (17+3)		Dominik Koll (17+3)		Kaitlin Webber (17+3)		Measuring the $^{15}\text{O}(\alpha,\gamma)^{19}\text{Ne}$ reaction in type I X-ray bursts using the GADGET II TPC		18:50															
19:00	How many explosions does one really need? - Deducing the number of supernovae in globular clusters with a variable initial mass function	19:00																								
19:10	Transition to Hotel-Landhaus Auswinkl (20)										19:10															
19:20											19:20															
19:30	Dinner at Hotel-Landhaus Auswinkl				Conference Dinner at Auswinkl			Dinner at Hotel-Landhaus Auswinkl			19:30															
...								Live music, midnight soup			...															
								Farewell party																		