

The XII Torino workshop and
IV CSFK Astromineralogy
workshop PROGRAM

Sunday 31 July	17:00 19:00	19:00 21:00	Registration Reception		At 20:00 performance by Gergely Hadobás , a cello student from the Liszt Ferenc Academy of Music	
Monday 1 August	8:30	9:00	Registration			Chairperson
Opening section	9:00	9:30	Welcome	László Szarka Director General of the CSFK; László Kiss Director of Konkoly Observatory		Maria Lugaro
Asteroseismology	9:30 9:50	9:50 10:10	SZABÓ, Róbert ANGÉLOU, George	Stellar structure studies in the era of precision asteroseismology Stellar Ages in the Kepler Era		
AGB connections:	10:10	10:30	HALABI, Ghina	Classical Novae: A Case for 2D Stellar Evolution		Peter Cottrell
	10:30	11:00	coffee break			
Post-AGB/Novae/SNe	11:00 11:20 11:40 12:00 12:20	11:20 11:40 12:00 12:20 12:40	KAMATH, Devika IZZARD, Rob DOMINGUEZ, Inma DENISENKOV, Pavel TOUT, Christopher	Constraining AGB nucleosynthesis with observations from post-AGB stars Post-AGB Binary Discs The connection between thermonuclear SNe and previous evolutionary phases The i-process nucleosynthesis in post-AGB and rapidly-accreting white dwarf stars The Origin of High-field Magnetic White Dwarfs		
	12:40	13:00	question time			
	13:00	14:30	lunch			
Astromineralogy I	14:30 14:50	14:50 15:10	SIKDAR, Jina ANDREOLI, Marco	Silicon isotopic variation within Enstatite Chondrite Alloys-rich Extraterrestrial Debris in Ferruginous Palaeosol from the Libyan Desert Glass Strewnfield, SW Egypt: Evidence of a Quirky Comet Origin		Trevor Ireland
Ernst Zinner's legacy I	15:10	15:30	FLOSS, Christine <i>(presented by HAENECOUR, Pierre)</i>	Presolar Silicate Grains: What Have We Learned?		
	15:30	15:50	GALLINO, Roberto	The impact of the discovery of presolar grains on theoretical studies of the s-process: a two decades of fabulous interaction with Ernst Zinner		
	15:50	16:20	coffee break			
	16:20 16:40 17:00 17:20	16:40 17:00 17:20 17:40	AVILA, Janina OTT, Ulrich HAENECOUR, Pierre LIU, Nan	Gd and Dy isotopic compositions in presolar SiC grains from AGB stars Barium and heavier elements in silicon carbide, and the case of the refractory metal nuggets First in-situ laboratory identification of a CO Nova Graphite and a Presolar Iron Sulfide Coexistence of Explosive H-Burning and Neutron Capture Isotopic Signatures in Presolar SiC		
	17:40	18:10	question time			
Tuesday 2 August						
Observational Constraints	9:00 9:20 9:40 10:00	9:20 9:40 10:00 10:20	LEBZELTER, Thomas HRON, Josef ABIA, Carlos UTTENTHALER, Stefan	Carbon and oxygen isotopic ratios for nearby Miras Carbon-rich AGB stars in the L- and M-band: from CRIRES to MATISSE The puzzle of the CNO isotopic ratios in AGB carbon stars LX Cyg: A carbon star is born		Hans Van Winckel
	10:20	10:50	coffee break			
	10:50	11:10	SHETYE, Shreeya	Probing stellar parameters of S-type stars via Spectral Energy Distribution (SED)		
Models and their ingredients I	11:10 11:30 11:50 12:10	11:30 11:50 12:10 12:30	WAGSTAFF, Graham DEN HARTOGH, Jacqueline TRIPPELLA, Oscar TANG, Xiaodong	Influence of the Outer Boundary Condition on models of AGB stars Impact of rotation and convective boundary mixing in low mass AGB stars The ^{13}C -pocket formation and the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction rate Direct measurement of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction at stellar energies		Inma Dominguez
	12:30	13:00	question time			
	13:00	14:30	lunch			
Ernst Zinner's legacy II	14:30 14:50 15:10 15:30	14:50 15:10 15:30 15:50	MARHAS, Kuljeet Kaur LATTANZIO, John C. DAVIS, Andrew BUSSO, Maurizio	Cr isotopic composition in individual Presolar AGB grains Overshoot Below the Intershell Convective Zone Iron and nickel isotopes in presolar SiC grains Toward a non-parametric coupling of nucleosynthesis and mixing in evolved low mass stars		Roberto Gallino
	15:50	16:20	coffee break, GROUP PHOTO			
	16:20	16:40	JADHAV, Manavi	Combined nano-computed tomography and x-ray fluorescence experiments: A powerful, non-destructive technique for in-situ chemical analyses of presolar grains		
	16:40 17:00 17:20	17:00 17:20 17:50	HOPPE, Peter IRELAND, Trevor	Extinct Silicon-32 in Presolar Silicon Carbide Grains s-Process nucleosynthetic profile through heavy elements		
	17:20	17:50	question time			

Wednesday 3 August

Astromineralogy II	9:00	9:20	WALLNER, Anton	Interstellar Medium near Earth – mapped through live Fe-60, Al-26 and Pu-244 on Earth	Kuljeet Marhas
	9:20	9:40	LI, Kuoang	The beta-decay rates of 59Fe isotope in shell burning environments and their influences on the production of 60Fe in massive star	
	9:40	10:00	PALMERINI, Sara	Composition of Oxide Grains of AGB Origin: a Puzzle Solved by Stellar MHD and Nuclear Physics	
	10:00	10:20	KARAKAS, Amanda	R Coronae Borealis Stars as Viable Factories of Pre-solar Grains	
	10:20	11:00	coffee break		
	11:00	11:20	GOBRECHT, David	Silicon Carbide stardust formation	
	11:20	11:40	KERESZTURI, Ákos	Meteorite research at CSFK	
	11:40	12:00	HEGEDŰS, Tibor	Recovering Csátalja	
	12:00	12:30	question time		
	12:30	14:00	lunch		
			AFTERNOON	Social program: Excursion to the Buda hills and Konkoly Observatory	

Thursday 4 August

	9:00	9:20	SHIRYAEV, Andrey	Spectroscopic study of meteoritic nanodiamonds: implications for formation mechanism and detection in space	
CEMP stars	9:20	9:40	STANCLIFFE, Richard	The intermediate neutron capture process and carbon-enhanced metal-poor stars	Robert Izzard
	9:40	10:00	MATROZIS, Elvijs	Mixing processes in carbon-enhanced metal-poor stars with s-process enrichment	
	10:00	10:20	ABATE, Carlo	The origin of CEMP-r/s stars: Can we learn anything about AGB nucleosynthesis?	
	10:20	10:40	POLS, Onno	Binary probes of AGB nucleosynthesis	
	10:40	11:10	coffee break		
Models and their ingredients II	11:10	11:30	CRISTALLO, Sergio (<i>presented by GOBRECHT, David - TBC</i>)	AGB stars: interior vs exterior	Paola Marigo
	11:30	11:50	VAN ECK, Sophie	The temperature and chronology of heavy-element synthesis in low-mass stars	
	11:50	12:10	DILLMANN, Iris	Bye-bye KADoNIS: The Final Act!	
	12:10	12:30	TAGLIENTE, Giuseppe	Recent results in Nuclear Astrophysics of n_TOF facility at CERN	
	12:30	13:00	question time		
	13:00	14:30	lunch		
STARS vs GALAXIES	14:30	14:50	DUGGAN, Gina	Chemically-Deduced Star Formation Histories of Dwarf Galaxies	Sophie van Eck
	14:50	15:10	DELL'AGLI, Flavia	AGB stars in the Local Group galaxies: evolution and dust production	
	15:10	15:30	DAMONE, Lucia Anna	$7\text{Be}(n,\alpha)$ and $7\text{Be}(n,p)$ cross section measurement for the Cosmological Lithium Problem at the n_TOF facility at CERN	
	15:30	15:50	DOHERTY, Carolyn	Monash Chemical Yields Project (Monxey) - Element production in low- and intermediate-mass stars of metallicities $Z = 0$ to 0.04	
	15:50	16:20	coffee break		
	16:20	16:40	BISTERZO, Sara	Galactic Chemical Evolution: the impact of AGB stars	
	16:40	17:00	MANCHADO, Arturo	On the chemical enrichment of the ISM by AGB stars	
	17:00	17:20	MESZAROS, Szabolcs	The Apache Point Observatory Galactic Evolution Experiment	
	17:20	17:50	question time		
			Workshop dinner		

Friday 5 August

Strangeness	9:00	9:20	CHURCH, Ross	The structure, formation and nucleosynthesis of Thorne-Zytkow objects	Christopher Tout		
	9:20	9:40	WORLEY, Claire	HV2112, an elusive TZO or a super-AGB star?			
Stellar clusters and AGB stars	9:40	10:00	D'ORAZI, Valentina (<i>possibly via Skype</i>)	Barium abundances as diagnostics of stellar youth	Amanda Karakas		
	10:00	10:20	GYŰRKY, György	Experimental study of hydrogen burning reactions in wide energy ranges			
		10:20	11:00	coffee break			
	11:00	11:20	THYGESEN, Anders	Investigating the Milky Way halo enrichment with Mg isotopes			
	11:20	11:40	ZAMORA, Olga	Second-generation asymptotic giant branch stars in metal-poor galactic globular clusters			
	11:40	12:00	CAMPBELL, Simon	The Case of the Missing AGB Stars in Globular Clusters			
	12:00	12:30	question time				
	12:30	14:00	lunch				
	14:00	14:20	GOERRES, Joachim	$^{22}\text{Ne}(\alpha,n)$ revisited	Oscar Straniero		
	14:20	14:40	PÉREZ-MESA, Víctor	Rb and Zr content in massive Milky Way AGB stars revisited			
	14:40	15:00	DEPALO, Rosanna	Low-Energy resonances in the $^{22}\text{Ne}(p,\gamma)^{23}\text{Na}$ reaction directly observed at LUNA			
	15:00	15:20	MARIGO, Paola	Sodium ejecta from AGB stars: the impact of the new LUNA rate for $^{22}\text{Ne}(p,\gamma)^{23}\text{Na}$			
	15:20	15:50	conclusions				