Euclid and beyond: the many faces of modern cosmology

Rome 11-14 February 2019 Sala convegni, Pl.e Aldo Moro 7

Scientific Program(*)

		Day	1 - N	londay February 11
		Session 1 -	State	of the art and perspectives
10:30-13:15	Chair: C. Cai	rbone		
Adriano	Fontana		15	Welcome & introduction
Nicola	Bartolo	Review Talk	30	Inflation and its observables, primordial gravitational waves and Non- Gaussianity
Salvatore	Capozziello	Review Talk	30	Dark Energy vs. Modified gravity models
Cristian	Galbiati	Review Talk	30	Dark Matter: theoretical aspects and instrumental search
Michele	Punturo	Review Talk	30	The detection of GW
Elena	Pian	Review Talk	30	Multi-messenger astrophysics: State of the art of GW and UHE neutrino electromagnetic follow-up
Lunch break (1	.3:15-14:15)			
			Se	ession 2 - CMB
14:15-15:55	Chair: L. Sta	nco		
Marco	Bersanelli	Invited Talk	25	CMB experiments
Silvia	Galli	Invited Talk	25	Cosmological results from the final data release of the Planck satellite
Paolo	Natoli	Invited Talk	25	The Planck cosmological legacy and what can be done with it
Carlo	Baccigalupi	Invited Talk	25	CMB Polarization: theoretical motivations and observational perspectives.
Coffe Break (1	6:00-16:30)			
16:30-17:30				
Erminia	Calabrese	DISCUSSION LEADER		
Paolo	De Bernardis	DISCUSSION LEADER	60	DISCUSSION
Nicola	Vittorio	DISCUSSION LEADER		
17:30:18:15 Special lecture: "The Gruber Prize to Planck", Prof. Reno Mandolesi				

		Day	2 - T	uesday February 12	
				her astrophysical probes	
9:00-11:00	Chair: P. Blasi				
Stefano	Cristiani	Invited Talk	25	Cosmological constraints from high resolution spectroscopy	
Guido	Risaliti	Invited Talk	25	Cosmological constraints from the Hubble diagram of quasars at high redshifts	
Gabrijela	Zaharijas	Invited Talk	25	Searching for dark matter particle properties in astrophysical data	
Nicola	Menci	Invited Talk	25	Constraints on DM particles from galaxy surveys	
Michele	Moresco	Invited Talk	25	Moving beyond standard probes: a new method to constrain the expansion	
				history of the Universe with cosmic chronometers	
Coffe Break (11:0	00-11:30)				
11:30-13:00	Chair: B. Ga	ırilli			
Martino	Romaniello	Invited Talk	25	The Hubble constant: current tension from different experiments	
Simona	Gallerani	Invited Talk	25	The physical properties of z~6 quasars	
Fabrizio	Nicastro	Invited Talk	25	Missing Baryons and the Warm-Hot Intergalactic Medium	
Stefano	Ettori	Contributed Talk	15	X-ray, SZ and dark matter in galaxy clusters	
Lunch break (1	13:00-14:00)				
14:00-16:00	Chair: L. Gu	ZZO			
Stefano	Cavuoti	Contributed Talk	15	Stellar Formation Rates for large samples of galaxies using Machine learning methods.	
Giacomo	Girelli	Contributed Talk	15	CONSTRAINTS ON THE STELLAR-TO-HALO MASS RELATION FROM z=0 TO z=4	
Alessandro	Spagna	Contributed Talk	15	How could Euclid address local cosmology issues?	
Luigi	Bassini	Contributed Talk	15	Black hole mass and cluster mass relation in cosmological hydrodynamical simulations	
Giuseppe	Bono	DISCUSSION LEADER			
Andrea	Cimatti	DISCUSSION LEADER	60	DISCUSSION	
Raffaella	Shneider	DISCUSSION LEADER			
Coffe Break (1	6:00-16:30)				
		Ses	sion 4	4: LSS and clustering	
16:30-18:15	Chair: L. Mo			_	
Ben	Granett	Invited Talk	25	Mapping the large-scale structure of the Universe with spectroscopic redshift surveys	
Isabella	Prandoni	Invited Talk	25	The SKA Project and its role in cosmology	
Massimo	Meneghetti	Invited Talk	25	Unveiling the inner structure of galaxy clusters using strong lensing	
Carlo	Giocoli	Invited Talk	25	Simulations for weak lensing studies	

Day 3 - Wednesday February 13							
Session 4: LSS and clustering							
9:00-10:40	Chair: E. Sefusatti						
Maria	Archidiacono	Invited Talk	25	Neutrino constraints from future surveys			
Marco	Baldi	Invited Talk	25	Simulations for LSS			
Alex	Saro	Invited Talk	25	The South Pole Telescope (SPT) cluster survey and its cosmological implications			
Daniele	Bertacca	Invited Talk	25	Light cone effects in the wide-angle galaxy 2-point correlation function			
Coffe Break (10:4	10-11:10)						
11:10-13:00 Chair: R. Scaramella							
Andrea	Biviano	Contributed Talk	15	DM from kinematics in galaxy clusters			
Stefano	Camera	Contributed Talk	15	Synergetic cosmology across the spectrum			
Federico	Marulli	Contributed Talk	15	The clustering of XXL galaxy clusters			
Mauro	Sereno	Contributed Talk	15	Galaxy clusters scaling relations for astrophysics and cosmology			
Enzo	Branchini	DISCUSSION LEADER					
Vincenzo Fabrizio	Cardone	DISCUSSION LEADER	50	DISCUSSION			
Matteo	Viel	DISCUSSION LEADER					
Lunch break (13:00-14:00)							
Session 5: Summary and conclusion							
14:00-15:30	Chair: A. For			·			
Sabino	Matarrese	Review Talk	45	Summary Talk			
S. Borgani, B. Negri, M. Pallavicini, F.							
Zerbi		45	Round table: Conclusions and perspectives				
Coffe Break (15:3	30-16:00)						
16:00-18:00							
Euclid Italia Consortium Meeting - see separate program							

		POSTERS
Ivano	Baronchelli	Identification of single line emitters in large spectroscopic surveys: WISPs
		Constraints on interacting dynamical dark energy from the cosmological
Marco	Bonici	equation of state
Federico	De Luca	A multi-wavelength study of the dynamical state of galaxy clusters with The
		Three Hundred numerical cluster catalogue
Chiara	Moretti	Extending approximated methods to generate mock catalogs to modified
		gravity theories
Carolina	Parroni	HOWLS - Higher Order Weak Lensing Statistics
Federica	Sassano	Light, heavy or intermediate? The nature of the first supermassive black hole
		seeds.

^(*) Program Version 7, last updated on Feb 4, 2019