

Programme of the School of Astrophysics “Francesco Lucchin” Bertinoro, May 24-29, 2009

Timetable:

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
09:00-10:00		S: JW (I)	B: AB (I)	S: JW (IV)	B: LM (II)	S: CP (IV)
10:00-11:00		B: NV (I)	S: JW (III)	B: AB (III)	S: AH (III)	B: SC (II)
11:00-11:30		<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>
11:30-12:30		S: JW (II)	B: NV (IV)	S: JW (V)	B: CB (II)	B: SC (III)
12:30-14:30		<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
14:30-15:30		B: NV (II)	S: AH (I)	B: CB (I)	S: CP (III)	Bus Bertinoro - Bologna
15:30-16:30		S: CP (I)	B: AB (II)	S: CP (II)	B: SC (I)	
16:30-17:00		<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	
17:00-18:00	Bus Bologna- Bertinoro	B: NV (III)	S: AH (II)	B: LM (I)	S: AH (IV)	
18:00-19:00	<i>Welcome buffet</i>	Students' Talks	Students' Talks	Students' Talks	Students' Talks	
8:30 PM				<i>Social Dinner</i>		

Detailed Programme:

Sunday, May 24th

17:00 Bologna - Bertinoro bus with departure from Bologna bus station, platform 25
18:30 - 20:00 **Welcome Buffet**

Monday, May 25th

08:00 - 09:00 **Registration and welcome**

09:00 - 10:00 **Jasper Wall**: *Statistics in astronomy (I)*

10:00 - 11:00 **Amedeo Balbi** (on behalf of Nicola Vittorio): *CMB temperature and polarization anisotropies (I)*

11:00 - 11:30 Coffee Break

11:30 - 12:30 **Jasper Wall**: *Statistics in astronomy (II)*

12:30 - 14:30 Lunch

14:30 - 15:30 **Amedeo Balbi** (on behalf of Nicola Vittorio): *CMB temperature and polarization anisotropies (II)*

15:30 - 16:30 **Cristiano Porciani**: *Advanced statistical techniques with astrophysical applications (I)*

16:30 - 17:00 Coffee Break

17:00 - 18:00 **Amedeo Balbi** (on behalf of Nicola Vittorio): *CMB temperature and polarization anisotropies (III)*

18:00 - 19:00 **Students' Talks (I)**

Maciej Bilicki: *Density of the Universe from 2MASS*

Gabriele Bruni: *A multi-wavelength study of radio-loud broad absorption line Quasars*

Stefano Camera: *Weak lensing signal in Unified Dark Matter models*

Maria Angela Campisi: *Host Galaxies of LGRBs on cosmological simulation*

Diego Capozzi: *The build up of the colour-magnitude relation in low-redshift clusters*

Massimo Cavadini: *Theoretical Extragalactic Background Light*

Tuesday, May 26th

09:00 - 10:00 **Amedeo Balbi**: *Cosmological information from large-scale structure (I)*

10:00 - 11:00 **Jasper Wall**: *Statistics in astronomy (III)*

11:00 - 11:30 Coffee Break

11:30 - 12:30 **Amedeo Balbi** (on behalf of Nicola Vittorio): *CMB temperature and polarization anisotropies (IV)*

12:30 - 14:30 Lunch

14:30 - 15:30 **Alan Heavens**: *Statistical techniques in cosmology (I)*

15:30 - 16:30 **Amedeo Balbi**: *Cosmological information from large-scale structure (II)*

16:30 - 17:00 Coffee Break

17:00 - 18:00 **Alan Heavens**: *Statistical techniques in cosmology (II)*

18:00 - 19:00 **Students' Talks (II)**

Andrea Conte: *Biased total mass of cool core galaxy clusters by Sunyaev-Zel'dovich effect measurements*

Carlos Contreras: *Test of Cosmology with 2points-Correlation Function on Wiggle-Z data*

Graziano Coppa: *Bimodalities for zCOSMOS galaxies: the hunt for Green Valley*

Filippo D'Ammando: *Multiwavelength observations of the gamma-ray blazar PKS 1510-089*

Thomas Franzen: *AMI and VSA observations of extragalactic sources from the WMAP 3-year data at 16 and 33 GHz*

Julian Merten: *Combining weak and strong lensing*

Wednesday, May 27th

09:00 - 10:00 **Jasper Wall**: *Statistics in astronomy (IV)*

10:00 - 11:00 **Amedeo Balbi**: *Cosmological information from large-scale structure (III)*

11:00 - 11:30 Coffee Break

11:30 - 12:30 **Jasper Wall**: *Statistics in astronomy (V)*

12:30 - 14:30 Lunch

14:30 - 15:30 **Carlo Baccigalupi**: *CMB, foregrounds, and component separation (I)*

15:30 - 16:30 **Cristiano Porciani**: *Advanced statistical techniques with astrophysical applications (II)*

16:30 - 17:00 Coffee Break

17:00 - 18:00 **Lauro Moscardini**: *SZ effect (I)*

18:00 - 18:50 **Students' Talks (III)**

Daniela Paoletti: *The Scalar, Vector and Tensor Contributions of a Stochastic Background of Primordial Magnetic Fields to CMB*

Valentina Presotto: *SCG0018-4854: a young and dynamic group*

Simona Righini: *The new 18-26 GHz multifeed receiver at the Medicina 32m dish*

Barbara Sartoris: *Cosmology with galaxy clusters*

Ana Laura Serra: *Alternative estimation of the dark matter content of dSphs*

20:30 **Social Dinner** at Casa Artusi, Forlimpopoli

Thursday, May 28th

09:00 - 10:00 **Lauro Moscardini**: *SZ effect (II)*

10:00 - 11:00 **Alan Heavens**: *Statistical techniques in cosmology (III)*

11:00 - 11:30 Coffee Break

11:30 - 12:30 **Carlo Baccigalupi**: *CMB, foregrounds, and component separation (II)*

12:30 - 14:30 Lunch

14:30 - 15:30 **Cristiano Porciani**: *Advanced statistical techniques with astrophysical applications (III)*

15:30 - 16:30 **Stefano Cristiani**: *UV background, IGM and reionization (I)*

16:30 - 17:00 Coffee Break

17:00 - 18:00 **Alan Heavens**: *Statistical techniques in cosmology (IV)*

18:00 - 19:00 **Students' Talks (IV)**

Marilena Spavone: *Multiwavelength study of the interacting and peculiar galaxies*

Rockee Sung: *CMB maps from anisotropic Bianchi models*

Nicolas Taburet: *SZ clusters as cosmological probes*

Francesco Tombesi: *A search for relativistic outflows signatures in the X-ray spectra of Radio-Quiet AGNs*

Rashmi Verma: *Continuum calibration of K- band multi-feed receiver*

Massimo Viola: *Determination of the dark matter halo density slope*

Friday, May 29th

09:00 - 10:00 **Cristiano Porciani**: *Advanced statistical techniques with astrophysical applications (IV)*

10:00 - 11:00 **Stefano Cristiani**: *UV background, IGM and reionization (II)*

11:00 - 11:30 Coffee Break

11:30 - 12:30 **Stefano Cristiani**: *UV background, IGM and reionization (III)*

12:30 - 14:30 Lunch

14:30 Bertinoro - Bologna: bus with arrival at the Bologna train station

Topics and speakers:

1. Cosmological backgrounds

Director: **Gianfranco De Zotti** (INAF - Padova Astronomical Observatory)

- Nicola Vittorio (University of Roma Tor Vergata): *CMB temperature and polarization anisotropies*

- Carlo Baccigalupi (SISSA Trieste): *CMB, foregrounds, and component separation*

- Lauro Moscardini (University of Bologna): *SZ effect*

- Amedeo Balbi (University of Roma Tor Vergata): *Cosmological information from large-scale structure*

- Stefano Cristiani (INAF - Trieste Astronomical Observatory): *UV background, IGM and reionization*

2. Statistical methods for astrophysics

Director: **Gianni Zamorani** (INAF - Bologna Astronomical Observatory)

- Jasper Wall (University British Columbia): *Statistics in astronomy*

- Alan Heavens (University of Edinburgh): *Statistical techniques in cosmology*

- Cristiano Porciani (University of Bonn): *Advanced statistical techniques with astrophysical applications*

Participants:

Ranieri Diego Baldi (University of Torino, Italy)
Alessandra Beifiori (Astronomy Department, University of Padova, Italy)
Fabio Bellagamba (University of Bologna, Italy)
Chiara Bertolin (University of Padova, Italy)
Maciej Bilicki (N. Copernicus Astronomical Center, Warsaw, Poland)
Beatriz Blanco Siffert (Università degli Studi di Napoli "Federico II", Italy)
Annalisa Bonafede (INAF-IRA - University of Bologna, Italy)
Gabriele Bruni (INAF-IRA - University of Bologna, Italy)
Umberto Buonomo (University of Padova, Italy)
Rosa Calvi (University of Padova, Italy)
Stefano Camera (University of Torino, Italy)
Maria Angela Campisi (MPA Institute Garching, Germany)
Diego Capozzi (John Moores University, Liverpool, United Kingdom)
Andrea Cardullo (Astronomy Department, University of Padova, Italy)
Alessandro Carucci (University of Roma Tre, Italy)
Massimo Cavadini (University of Insubria, Italy)
Barbara Comis (University of Roma "La Sapienza", Italy)
Andrea Conte (University of Roma "La Sapienza", Italy)
Carlos Roberto Contreras Velasquez (Swinburne University, Australia)
Rodrigo Contreras (INAF-Bologna Astronomical Observatory, Italy)
Graziano Coppa (University of Bologna, Italy)
Matteo Correnti (University of Bologna, Italy)
Valentina Cracco (Astronomy Department, University of Padova, Italy)
Denija Crnojevic (ARI-ZAH University of Heidelberg, Germany)
Serena Dalena (University of Calabria, Italy)
Filippo D'Ammando (University of Roma "Tor Vergata", Italy)
Sandro Donato (University of Calabria, Italy)
Valentina D'Orazi (INAF-Padova Astronomical Observatory, Italy)
Thomas Franzen (University of Cambridge, United Kingdom)
Alessio Gnerucci (Astronomy Department, University of Firenze, Italy)
Daria Guidetti (ESO Garching, Germany - INAF-IRA Bologna, Italy)
Vincenzo Guido (University of Bologna - INAF, Italy)
Karianne Holhjem (Argelander-Institut fuer Astronomie, University of Bonn, Germany)
Bruna Li Destri Nicosia (University of Milano, Italy)
Elisabetta Liuzzo (INAF-IRA - University of Bologna, Italy)
Matteo Lombini (INAF-Bologna Astronomical Observatory, Italy)
Elisabeta Lusso (University of Bologna, Italy)
Giulia Macario (INAF-IRA, Bologna, Italy)
Lucia Marchetti (University of Padova, Italy)
Federico Marinacci (University of Bologna, Italy)
Anna Marino (University of Padova, Italy)
Ylenia Maruccia (University of Bologna, Italy)
Pierdomenico Memeo (INAF-IASF Milano, Italy)
Julian Merten (ZAH/ITA University of Heidelberg, Germany)
Michele Moresco (University of Bologna, Italy)
Maria Ida Moretti (University of Bologna, Italy)
Dino Mesa (University of Padova, Italy)
Elisa Nichelli (University of Roma "Tor Vergata", Italy)
Giuseppe Nisticò (University of Calabria, Italy)
Daniela Paoletti (INAF-IASF Bologna - University of Ferrara, Italy)
Pietro Parisi (INAF-IASF - University of Bologna, Italy)
Sibilla Perina (INAF-Bologna Astronomical Observatory, Italy)
Guido Walter Pettinari (University of Bologna, Italy - Institute of Cosmology and Gravitation, Portsmouth, UK)
Valentina Presotto (University of Insubria - INAF Brera Observatory, Italy)
Alessandro Renzi (SISSA Trieste, Italy)
Simona Righini (Astronomy Department, University of Bologna, Italy)
Elisabetta Rigliaco (Arcetri Astrophysical Observatory, Firenze, Italy)
Carmen Rodriguez Gonzalvez (University of Cambridge, United Kingdom)
Anooshiravan Roozrokh (Sharif University of Technology, Iran)
Julian Enrique Sarria Chavez (University of Roma Tre, Italy)
Barbara Sartoris (University of Trieste, Italy)
Francesca Schiavon (INAF-IRA Bologna, Italy)
Federico Sembolini (University of Roma "La Sapienza", Italy)
Ana Laura Serra (University of Torino, Italy)
Marilena Spavone (INAF-OAC - University of Napoli, Italy)
Rockhee Sung (Cardiff University, United Kingdom)
Nicolas Taburet (Institut d'Astrophysique Spatiale, Orsay, France)
Francesco Tombesi (University of Bologna, Italy)
Stefano Vandelli (University of Padova, Italy)
Luigi Vaona (University of Padova, Italy)
Anna Lisa Varri (University of Milano, Italy)
Rashmi Verma (INAF-IRA, Italy)
Enrico Verroi (University of Padova, Italy)
Daniele Vetrugno (University of Salento, Italy)
Massimo Viola (ITA-ZAH, University of Heidelberg, Germany)