

IAU SYMPOSIUM 262  
“*Stellar Populations: Planning for the Next Decade*”  
Rio de Janeiro, Brazil, August 3-7, 2009

PROGRAM

**Monday 03**

09:00 - 10:30 Jarle Brinchmann (K)  
Challenges in Stellar Population Studies

10:30 - 11:00 COFFEE

**Session 1: Physics of Stellar Populations**

11:00 - 11:45 Santi Cassisi (K)  
Evolutionary models: firm evidence - open questions - future developments

11:45 - 12:00 A. Javier Cenarro  
Blue straggler stars rejuvenating the integrated spectra of globular clusters

12:00 - 12:15 Aldo A. R. Valcarce  
Study of the He-enrichment in globular clusters

12:15 - 12:30 Dany Vanbeveren  
The influence of binaries on the temporal evolution of the stellar populations and of the chemical elements in galaxies

12:30 - 14:00 LUNCH

14:00 - 14:30 Paola Marigo (I)  
TP-AGB stars in population synthesis models

14:30 - 14:45 Onno R. Pols  
Carbon-enhanced metal-poor stars and the importance of binary stars in stellar population studies

14:45 - 15:00 Zhanwen Han  
Evolution of binary stars and its implications for evolutionary population synthesis

15:00 - 15:15 Rosa Amelia Gonzalez-Lopezlira  
Tracers of stellar mass-loss. Optical and IR colors and surface brightness fluctuations

15:30 - 16:00 COFFEE

**Session 2: Spectral Evolution Models**

16:00 - 16:45 Gustavo Bruzual (K)  
Population synthesis: challenges for the next decade

16:45 - 17:00 Alexandre Vazdekis  
Canonical and alpha-enhanced MILES-based models

- 17:00 - 17:15 Peter Anders  
GALEV feat. binaries and high-resolution spectra
- 17:15 - 17:30 Roberto Cid Fernandes  
Testing evolutionary synthesis models: empirical feedback to model makers

## **Tuesday 04**

- 11:00 - 11:30 Claus Leitherer (I)  
Spectral evolution models for the next decade
- 11:30 - 11:45 Elisabete da Cunha  
A simple model to interpret the ultraviolet, optical and infrared spectral energy distributions of galaxies
- 11:45 - 12:00 Esther Marmol-Queralto  
Stellar population study in early-type galaxies: an approach from the K band
- 12:00 - 12:15 Stefano Zibetti  
Resolved maps of stellar mass and sed of galaxies from optical/NIR imaging and SPS models
- 12:15 - 12:30 Grazyna Stasinska  
Nebular abundances in galaxies

## **Wednesday 05**

### **Session 3: Milky Way and Local galaxies**

- 11:00 - 11:45 Steven Raymond Majewski (K)  
The future of stellar population studies in the Milky Way and local group
- 11:45 - 12:00 Sakurako Okamoto  
The stellar populations and spatial structures of dark dwarf satellites
- 12:00 - 12:15 Mikako Matsuura  
Infrared sources in the galaxies in the local group
- 12:15 - 12:30 Sophia Lianou  
Early-type dwarf galaxies in the M81 group
- 12:30 - 14:00 LUNCH
- 14:00 - 14:30 Eline Tolstoy (I)  
Dwarf galaxies in the local group
- 14:30 - 14:45 Aaron J. Grocholski  
New DEEP HST/ACS photometry of NGC 1569: constraining the evolution of the strongest starburst in the nearby universe
- 14:45 - 15:00 Timothy C. Beers  
Metallicity mapping with GRI photometry and the distance to the Virgo overdensity
- 15:00 - 15:15 Sonia Valeria Duffau  
The Virgo stellar stream
- 15:15 - 15:30 Antonela Monachesi  
The stellar populations of M32: resolving the nearest elliptical with HST ACS/HRC

- 15:30 - 16:00 COFFEE
- 16:00 - 16:15 Rene Alejandro Mendez  
Proper motions of local group dwarf galaxies
- 16:15 - 16:30 Mustapha Mouhcine  
The outskirts of the Milky Way analogue NGC 891
- 16:30 - 16:45 Paula Coelho  
An analysis of the composite stellar population in M32
- 16:45 - 17:00 Martin Bureau  
The UV-upturn phenomenon in early-type galaxies: UV-linestrength relations
- 17:00 - 17:15 Sukyoung Ken Yi  
The current status on the UV upturn: observation and theory
- 17:15 - 17:30 Kim Venn  
Stellar metallicity and kinematics in the gas-rich dwarf galaxy WLM

## Thursday 06

### Session 4: Early- and Late-type galaxies

- 09:00 - 09:45 Ivo Labbe (K)  
Dissecting the formation histories of galaxies with stellar populations models
- 09:45 - 10:00 Rogerio Riffel  
Probing the stellar population of seyfert galaxies: a near infrared view
- 10:00 - 10:15 Sugata Kaviraj  
The evolution of early-type galaxies over the last 8 billion years: insights from the rest-frame ultraviolet
- 10:15 - 10:30 Lauren A. MacArthur  
Stellar population and kinematic profiles in spiral bulges and disks
- 10:30 - 11:00 COFFEE
- 11:00 - 11:30 David C. Koo (I)  
DEEP, AEGIS, and CATS: pathfinding surveys to the next generation of distant galaxy stellar population research
- 11:30 - 11:45 Ignacio Trujillo  
Weak velocity dispersion evolution of spheroid-like massive galaxies since  $z \sim 2$
- 11:45 - 12:00 Patricia Sanchez-Blazquez  
The star formation history and chemical evolution of disk galaxies
- 12:00 - 12:15 Ricardo P. Schiavon  
The metallicities and abundance patterns of globular clusters in M31
- 12:15 - 12:30 adjourn
- 12:30 - 14:00 LUNCH

## Session 5: Lessons from Large Surveys

- 14:00 - 14:45 Michael Rogers Blanton (K)  
What have we learned from the interpretation of large spectral surveys?
- 14:45 - 15:00 Anna Gallazzi  
Ecology of galaxy stellar populations from optical spectroscopic surveys
- 15:00 - 15:15 Carlos Lopez-Sanjuan  
The evolution of passive galaxies since  $z = 1$ : major mergers vs secular processes
- 15:15 - 15:30 Yanchun Liang  
The properties of a large sample of low surface brightness galaxies from SDSS
- 15:30 - 16:00 COFFEE
- 16:00 - 16:30 Robert C. Kennicutt, Jr. (I)  
Insights from Multiwavelength Surveys and IFU Spectroscopy
- 16:30 - 16:45 Warrick John Couch  
Spatial mapping of the stellar populations and kinematics in E+A galaxies
- 16:45 - 17:00 Thijs van der Hulst  
HI in void galaxies: probing the lowest density environments
- 17:00 - 17:15 Vivienne Wild  
Building the red sequence through gas rich major mergers
- 17:15 - 17:30 Jeff Cooke  
The detection of  $z \sim 2$  type II supernovae in the CFHT legacy survey

## Friday 07

## Session 6: Galaxy Formation

- 09:00 - 09:45 Patricia Beatriz Tissera (K)  
Current status of galaxy formation modelling
- 09:45 - 10:00 Nelson Padilla  
Thousands of milky ways
- 10:00 - 10:15 Edward N. Taylor  
The rise of massive red galaxies
- 10:15 - 10:30 Vladimir Avila-Reese  
The evolution of galaxy disks in the LambdaCDM hierarchical scenario: models vs observations
- 10:30 - 11:00 COFFEE
- 11:00 - 11:30 Julien E. G. Devriendt (I)  
Modelling high-redshift galaxies: what can we learn from high and ultra-high resolution hydro dynamical simulations?
- 11:30 - 11:45 Christopher C Hayward  
Testing star formation rate indicators using galaxy merger simulations and radiative transfer
- 11:45 - 12:00 Thiago Signorini Goncalves  
Quenching star formation in the green valley: the mass flux at intermediate redshifts

- 12:00 - 12:15 Tom Shanks  
Extending PLE galaxy evolution models to Spitzer and sub-mm wavelengths
- 12:15 - 12:30 Basilio Xavier Santiago  
The dark energy survey: perspectives for resolved stellar population studies
- 12:30 - 14:00 LUNCH

### Session 7: The Next Decade

- 14:00 - 14:45 Roberto Abraham (K)  
A golden decade for stellar populations?
- 14:45 - 15:00 Matthew Colless  
Stellar populations and the fundamental plane from the 6dF galaxy survey
- 15:00 - 15:15 Andrew Bunker  
Stellar populations at redshifts beyond 6
- 15:15 - 15:30 Anne Pellerin  
The shining future of UV spectral synthesis
- 15:30 - 16:00 COFFEE
- 16:00 - 16:15 Dante Minniti  
VISTA variable survey in the Milky Way
- 16:15 - 16:30 Myung Gyoon Lee  
SMART for the next decade
- 16:30 - 16:45 Xu Kong  
Spectral synthesis for the LAMOST galaxy survey
- 16:45 - 17:00 Chris Evans  
E-ELT spectroscopy of resolved stellar populations beyond the local group
- 17:00 - 17:30 TBA  
Concluding Remarks

### POSTERS

#### Stars:

- Affer, Laura  
Analysis of rotation of CoRoT dwarf stars
- Baella, Nobar Octavio  
Symbiotic Stars and Planetary Nebulae in the [OIII]5007/HBeta vs.[OIII]4363/HGamma Diagnostic Diagram
- Cesetti, Mary  
High-resolution near-infrared spectra of metal poor red supergiants

- Cortes, Cristian  
Stellar parameters for 100 stars of the CoRoT exo—field
- Ducati, Jorge Ricardo  
The Mass Ratio in Spectroscopic Binaries
- Dumitrescu, Alexandru  
Comparative studies of some ellipsoidal variable stars observed by Hipparchos space mission
- Golovin, Alex  
NQ Her: Binary or Single?
- Grundstrom, Erika D.  
Spectroscopic H $\alpha$  and H $\gamma$  Survey of Field Be Stars: 2004-2008
- Hojaev, A. S.  
Conditions For Star Formation in Taurus Dark Clouds Complex
- Kalomeni, Belinda  
The Polars
- Kehrig, C.  
A Hot Molecular Core associated with the Ultracompact HII region G12.21-0.10
- Kehrig, Carolina  
An integral field view of the massive star feedback and the ionized gas in HII galaxies
- Kniazev, Alexei  
Spectroscopy of Emission-Line Objects in NGC 6822: Probing Stellar Populations and Evolution
- Lacour, Sylvestre  
Spectro Interferometric Imaging of T Lep
- Malkov, Oleg Yu.  
Parameterization of single and binary stars
- Mateluna, Renee  
Detailed abundances for field stars surrounding the LMC cluster Hodge 11
- Mennickent, Ronald  
A study of the interacting binary Double Periodic Variable V 393 Sco: evidence for mass loss and circumprimary disc
- Peng, Ting-Hung  
Near infrared colours of main sequence stars in 2MASS

Placco, Vinicius M.

Abundance Patterns among Very Metal-Poor Stars in the Halo of the Galaxy: A Statistical Approach

Qian, Shengbang

Mass transfer and angular momentum loss in cataclysmic variables deduced by orbital period changes

Rossi, Silvia

A spectroscopic survey of FHB stars near the south galactic pole

Ruppert, Jan

Star Formation in the LMC: Young Stellar Population in two distinct Giant Molecular Clouds

Tautvaisiene, Grazina

CNO abundance pattern in the red clump stars of the Milky Way

Valls-Gabaud, David

The duty cycle of massive star formation at low redshift

Vanbeveren, Dany

The formation and evolution of massive and very massive stars in clusters

Zhu, Liying

Mass transfer in Near-Contact Binaries (NCB)

### **Star Clusters:**

Alamo-Martinez, Karla Adriana

Testing how far we can measure globular clusters via Surface Brightness Fluctuations with HST

Colucci, Janet E.

Detailed Chemical Abundances of Extragalactic Globular Clusters Using High Resolution Spectroscopy

Dias, Bruno

Age and metallicity of stellar clusters in the Small Magellanic Cloud from integrated spectroscopy

Loubser, Ilani

Stellar populations in brightest cluster galaxies

Sakhibov, Firuz

Simulations of methods of comparison of multicolour photometry data with a grid of evolution models of star clusters

## **Dwarf Galaxies:**

Amaral Lanfranchi, Gustavo

Stellar metallicity distributions in local dwarf spheroidal galaxies - a comparison between model and observations

Chilingarian, Igor V

Kinematically and Evolutionary Decoupled Structures in Dwarf Elliptical Galaxies

Gullieuszik, Marco

A near-infrared view of AGB stars in nearby dwarf galaxies

Held, Enrico V.

The Star Formation History of the Fornax Dwarf Spheroidal Galaxy

Koleva, Mina

Spatially resolved star formation histories of dwarf elliptical galaxies

## **Galaxies:**

Bakos, Judit

Probing the origin of the stellar populations in the outskirts of late-type spiral galaxies: a panchromatic perspective

Busso, Giorgia

The UV spectrum of the Galactic Bulge

Cesetti, Mary

Early-type galaxies in the near-infrared: 1.5-2.4 micron spectroscopy

Chen, Xiaoyan

Stellar populations of the local infrared-selected galaxies

Chies-Santos, Ana L.

Globular clusters in early-type galaxies: K-band observations

Choi, Yumi

Star-forming Early-type Galaxies Seen with GALEX - Their Connection to E+A Galaxies

Costa Duarte, Marcus Vinicius

The Connexion between Galaxies and Superclusters of Galaxies

Curty, Didier

Automated morphological classification of galaxies using wavelet transform

- de la Fuente, Eduardo  
Towards a nebular HeII diagnostic for starbursts
- de Lorenzo-Caceres, Adriana  
Stellar populations of double-barred galaxies
- Ferre Mateu, Anna  
Environmental effects in the index-sigma relations of early-type galaxies
- Fiorentino, Giuliana  
The Ancient Population of Messier 32.
- Fritz, Alexander  
Mass dependent evolution of cluster early-type galaxies since  $z=1$
- Garcia de la Rosa, Ignacio  
The star formation histories of fossil group galaxies
- Gonzalez, Roberto  
Galaxy star formation in different environments
- Haas, Marcel  
Variations in the Integrated Galaxial Initial Mass Function, photometry and chemical enrichment
- Heap, Sara  
Dust Extinction In/Around Luminous Red Galaxies
- Heap, Sara  
The Rest-Frame Mid-UV Spectra of Galaxies
- Ihara, Yutaka  
A rate study of Type Ia supernovae with Subaru/XMM-Newton Deep Survey
- Kemp, Simon Nicholas  
Color profiles and maps of cD envelopes
- Kumar Singh, Arun  
Determination of the Intrinsic Shapes of Individual Elliptical Galaxies
- Lalaina Ratsimbazafy, Ando  
Stellar populations in luminous red galaxies: Cosmic Chronometers?
- Lee, Young-Wook  
Early-type galaxies prevailed by super-Helium-rich EHB populations: Evidence from the UV upturn and the Balmer absorption lines

- Magoulas, Christina  
Maximum likelihood method for fitting the Fundamental Plane with the 6dF Galaxy Survey
- Martinez-Garcia, Eric Emmanuel  
Spiral density wave triggering of star formation in SA and SAB galaxies
- Martins, Lucimara  
Tracers of Star Formation in the Near-Infrared
- McDermid, Richard M.  
Mapping Stellar Populations in Nearby Early-Type Galaxies with the Atlas3D Survey
- Mendez-Abreu, Jairo  
How do the bulge of galaxies form? A stellar population study of ~1500 bulges in the nearby universe
- Menezes, Roberto Bertoldo  
The nature of the LINER in the galaxy NGC 404
- Molla, Mercedes  
The expected photometrical characteristics of high redshift galaxies: implications of the star formation and the enrichment histories
- Morelli, Lorenzo  
Stellar Populations of Bulges in 14 Cluster Disc Galaxies
- Ogando, Ricardo  
Ages and metallicities of early-type galaxies
- Okoshi, Katsuya  
HI-selected Galaxies As a Probe of Quasar Absorption Systems
- Pellerin, Anne  
Stellar Populations in the Ring Galaxy NGC 922: Similarities with High Redshift Galaxies
- Perez Grana, Arturo  
Stellar Populations in Compact Galaxy Groups
- Perez, Maria Josefa  
Evolution of Stellar Population: Environments vs galaxy interactions
- Perez, Maria Josefa  
Guide to build a control sample for galaxy pairs
- Robert, Carmelle  
Stellar Populations in the Central Region of Barred Galaxies

- Robin, Annie C.  
Stellar populations in the Galactic bulge
- Roediger, Joel Christopher  
Probing Stellar Mass Assembly in the Virgo Cluster
- Saviane, Ivo  
Unveiling NGC 205: a galaxy undergoing morphological transformation?
- Shim, Hyunjin  
Mid-Infrared Excess of Early-Type Galaxies in Galaxy Cluster Abell 2255
- Sick, Jonathan  
The Stellar Populations of the Andromeda Galaxy with CFHT WIRCam J and Ks Imaging
- Steiner, J. E.  
Stellar archeology of nearby LINER galactic nuclei
- Tapia Peralta, Maria Trinidad  
Galaxy disc heating as a result of minor mergers
- Toloba, Elisa  
Carbon and Nitrogen Abundances in Early-Type Galaxies
- Torres-Flores, Sergio  
Star-forming Regions in the Intragroup Medium of Compact Groups of Galaxies
- Urrutia, Fernanda  
Intergalactic HII regions in HCG100 and Stephan's Quintet
- Vale Asari, Natalia  
What stellar populations can tell us about the evolution of the mass-metallicity relation in SDSS galaxies
- Vecchi Ricci, Tiago  
The stellar populations in the AGN/Starburst galaxies NGC 6221 and NGC 7582
- Vega, Luis Rodolfo  
Stellar Populations in Low Luminosity Active Galactic Nuclei
- Vince, Oliver  
Dust attenuation properties of galaxies with different star formation histories
- Wagner, Stefan J  
Constraints on the evolution of the diffuse extragalactic background

Westera, Pieter Willem  
Stellar populations in star forming galaxies in the Sloan Digital Sky Survey

Zapata Pichinao, Tatiana  
Stellar Population in Brightest Galaxy Clusters

Zhang, Hongxin  
Recent Star Formation Histories within the Antennae Galaxies (Arp~244)

Zolotukhin, Ivan  
FUV-to-NIR K-corrections for Low-Redshift Galaxies

## **Models:**

Coelho, Paula  
A study on the observability of nitrogen abundances on spectral galaxy models

de Castro Milone, Andre  
The Mg/Fe characterisation of MILES library for stellar population studies

Duran, Edison  
Including non-LTE atmospheres models of Wolf-Rayet Stars and new massive evolutionary tracks into Stellar Populations Synthesis Models

Gomes, Jean Michel  
Synthesis of composite stellar populations models

Gomes, Jean Michel  
Empirical tests of evolutionary synthesis models

Gonzalez Delgado, Rosa Maria  
Stellar populations in LIRGs and ULIRGs

Hempel, Maren  
Inny Minni Miney Moe or: Selecting a SSP model for stellar population analysis

Kelz, Andreas  
The Stellar Population Science Case for MUSE

Kotulla, Ralf  
GALEV evolutionary synthesis models

Liang, Yanchun  
Comparing the Simple Stellar Population Models and Reaching Consistence

Mateu, Juan

Inverse population synthesis using a dynamical basis

Mateus, Abilio

SEAGal--Millennium connection: mass assembly history of galaxies from observed spectra and simulations

Saguner, Tenay

Simple Stellar Populations: Synthetic vs. Observed

Schoenell, William

A public database of STARLIGHT products for 927,656 galaxies from the SDSS DR7

Souza, J. Rodrigo

Stellar Population Synthesis of the Near-IR Spectra of Luminous Infrared Starburst Galaxies

Zhang, Fenghui

Binary interactions on stellar populations

## **Theory:**

Besla, Gurtina

Asymmetric XUV Disks

Bulik, Tomasz

The metallicity dependence of double black hole formation

De Rossi, Maria Emilia

The effects of galactic winds on the chemical evolution of barions

De Rossi, Maria Emilia

The Tully-Fisher Relation in numerical simulations of structure formation

de Souza Braga, Carlos Augusto

On the Effects of Triaxial Haloes on Embedded Disk Galaxies

Pedrosa, Susana

Baryons and Dark Matter halo distributions in LCDM cosmology

Taylor, Edward N

Early type galaxies do not form monolithically

Thoene, Christina

Stellar population studies - how can we use them to determine the progenitors of SNe and GRBs?

Yun, Ki-Yun

A User-friendly Interface for Astrophysical N-body Simulations

**Future:**

Sachkov, Mikhail

World Space Observatory - Ultraviolet Project

Schiavon, Ricardo P.

The Apache Point Observatory Galactic Evolution Experiment

Wylie de Boer, Elizabeth Claire

HERMES: An instrument of the future