

Spectroscopy in Cosmology and Galaxy Evolution 2005-2015

Workshop at Carmen de la Victoria, Albaicin, Granada, Spain, 3-5 Oct 2007

Version 25 Sep 2007

Talks are scheduled for 15+5 min each, dicussion sessions for 40 min

Registration 09:00-09:50

Welcome 09:50-10:00

Wednesday 10:00-13:30

Jarle Brinchmann

Ben Panter

Guinevere Kauffmann

Sara Heap

Claudia Maraston

Coffee break 11:40-12:10

Daniel Thomas

Russell Smith

Claudia Maraston & Jarle
Brinchmann

Wednesday 15:30-19:00

Marc Davis

Mike Blanton

Omar Almaini

Laurence Tresse

Oliver Le Fevre

Coffee break 17:10-17:40

James E. Gunn

Michael Strauss

James E. Gunn, Marc Davis,
Matthew Colless, Olivier LeFevre

Session 1: (Chair Ch. Wolf)

Centro de Astrofísica Porto

IfA/ROE, Edinburgh University

MPA Garching

NASA Goddard

ICG Portsmouth

ICG Portsmouth

University of Durham

The Meaning of Spectra

The spectral properties of high-redshift galaxies - the view from low redshift

Full Spectral Analysis of Galaxies - Are we there yet?

Extracting physical information from spectra using PCA techniques

Making sense of restframe UV spectra

Where to look at in galaxy spectra

AGN feedback from spectra and SEDs

Cosmic archaeology with red-sequence galaxies: AAΩ, Hectospec and beyond

--> Discussion: Key issues in physical interpretation of galaxy spectra

Session 2: (Chair F. Prada)

University of California

New York University

University of Nottingham

Thursday 10:00-13:30

Christian Wolf
Sophie Maurogordato
Sadegh Khochfar
Masayuki Tanaka
Katarina Kovac

Coffee break 11:40-12:10

Rosa M. Gonzalez delgado
Igor Chilingarian
Laurence Tresse & Tom Shanks

Thursday 15:30-17:10

Matthew Colless
G. Dalton for Masayuki Akiyama
Gavin Dalton
Francisco Prada
Martin M. Roth

Coffee break 17:10-17:40

Free afternoon & evening

Session 3:

Oxford
CNRS
Oxford
ESO
IfA, ETH, Zuerich

IAA Granada
Observatoire de Paris - LERMA

Galaxies & Environment

The star formation-density relation and the cluster Abell 901/2 in COMBO-17
Star formation and dynamics in merging galaxy clusters
How to break model degeneracies
Wide-field Imaging and Spectroscopic Survey of Distant Clusters
The zCOSMOS three-dimensional density field to $z \sim 1$

Stellar Populations in LIRGs and ULIRGs

Spectroscopic studies of dE galaxies: past, present, and future
--> Discussion: Key questions for galaxy evolution & cosmology in 5 yrs time and beyond

Session 4:

Anglo-Australian Observatory
Subaru Telescope, NAOJ
Oxford & Rutherford Appleton Lab
IAA Granada
AIP Potsdam

Instrumentation

Wide-Field Spectrograph Concepts for Cosmology and Galaxy Evolution
Overview of FMOS project for Subaru
The FMOS Spectrographs
SIDE: project status
Fiber-bundle IFUs for HETDEX

Friday 10:00-13:30

Bob Nichol
David Schlegel
Tom Shanks
Tomonori Totani
Simon White

Coffee break 11:40-12:10

Michael Strauss
Adam Bolton
Simon White & Bob Nichol

Session 5:

ICG Portsmouth
Lawrence Berkeley Lab
Durham University
Kyoto University
MPA Garching

Princeton University
IfA, U Hawai'i

Dark Energy & Everything else

Hunting dark energy: The need for massive galaxy redshift surveys
Baryon Oscillation Spectroscopic Survey (BOSS) at SDSS
BAO, ISW and SZ from AAOmega and SDSS
FastSound: A BAO Survey by Subaru/FMOS
Science problems for next generation surveys

Using large-angle spectroscopic surveys to study AGN
Strong Lensing in the Spectroscopic Future

--> Discussion: Should we invest most resources into dark energy projects
or shower them across a variety of smaller investigations?

Friday 15:30-18:00

Jeffrey Newman
Mariano Moles
Hendrik Hildebrandt
James E. Gunn & Christian Wolf

Coffee break 17:10-17:40

Michael Strauss

Workshop dinner 20:30**Session 6:**

University of Pittsburgh
IAA Granada
AIFA Bonn

Princeton University

at Carmen de los Martires

Photometric & Spectroscopic Redshifts

Spectroscopy and Future Photometric Surveys
The ALHAMBRA-Survey. First results
PHAT: The PHoto-z Accuracy Testing project
--> Discussion: Should we put emphasis on photo-z or spectroscopic surveys?

Workshop summary