

FIRST ANNOUNCEMENT * * * * *

THIRD CHILEAN ADVANCED SCHOOL OF ASTROPHYSICS

"Insights in Galaxy Evolution from Stellar Populations in Resolved Galaxies"

Concepción, Chile, 8-12 January 2007

RATIONALE

The FONDAF Center for Astrophysics (see <http://www.cenastro.cl/>), whose main scientific driver is the preparation for an effective use of ALMA, is organizing its Third Advanced School of Astrophysics on the topic of galaxy evolution from resolved stellar populations. The analysis of stellar populations has been recognized as one of the important scientific topics to be addressed by ALMA, which will provide a deeper look into our nearest neighboring stars, study star-forming regions across the entire Galaxy, extend our study of evolved stellar populations to the Local Group (stellar winds, shells, asymmetries and composition for stars in their late stages of evolution), and study entire Milky-Way like galaxies out to $z=3$.

The study of galaxy formation has seen tremendous progress over the last few years. The new constraints on the cosmological standard CDM model permitted to model hierarchical structure formation from primordial fluctuations down to clusters of galaxies. However, there is still a gap between our understanding of the large scale universe and the local one. On a galaxy scale, several observations are challenging the hierarchical galaxy formation scenario. Resolved populations in the Local Group and beyond allow to study in exceptional detail the stellar populations of galaxies of different types and masses, and their possible interaction. Nowadays this subject has a renewed importance, in the quest for a match between our understanding of the local, present Universe and the more distant, primordial one. New, state-of-the-art instrumentation which has become available at 8-m class telescopes in Chile and elsewhere in recent years is now allowing to study stellar populations in nearby, resolved galaxies in glorious detail.

The School will highlight many of the very recent fundamental advances which have been made in this field, and will point out routes for further significant progress in understanding galaxy evolution from the detailed study of stars and stellar populations.

TOPICS AND LECTURERS:

There will be five lectures covering the following topics:

- The History of the Local Group (and beyond) through the Analysis of Color-Magnitude Diagrams
- Abundances and Kinematics from High-Resolution Spectroscopic Surveys
- Stars as Distance Indicators
- Local Dwarfs and Giant Ellipticals
- Hot Massive Stars in the Local Group and beyond

The lecturers on these five respective topics will be:

- Carme Gallart (Instituto de Astrofísica de Canarias, Spain)
- Eline Tolstoy (Kapteyn Astronomical Institute, Netherlands)
- Barry Madore (Carnegie Institution of Washington and Caltech, USA)
- Laura Greggio (INAF Osservatorio Astronomico di Padova, Italy)
- Rolf-Peter Kudritzki (Institute for Astronomy, Hawaii, USA)

In addition, we plan to have a number of short (15+5 min) contributed talks by senior participants on the topics of the School, and participants are welcome to present Posters. While the Advanced School lectures will be aimed at graduate students of astronomy, we also invite participation of senior astronomers interested in the topics of the School.

Students/senior astronomers interested in attending the School should fill in the form below and return it to the School email address:

school2007@astro-udec.cl

IMPORTANT DATES:

The deadline for pre-registration is July 31, 2006.

Students/astronomers interested in attending the School must fill in the pre-registration form provided below and return it to the School email address by this date.

A Second Announcement will be sent out shortly thereafter to all applicants. We expect to have room for about 100 students and 40 senior participants: selection will be done on a first come first served basis.

FEES & FINANCIAL SUPPORT:

The conference registration is free for students. For staff astronomers and postdocs, there will be a registration fee of 100 USD. The conference will provide free daily coffee breaks and lunches, and a

conference dinner to all attendees.

Financial support for travel and/or lodging will be available for most registered students. Selection and grant assignation will be done on an individual basis, with priority to graduate students from Latin America.

SPONSORS:

The Advanced School on "Insights in Galaxy Evolution from Stellar Populations in Resolved Galaxies" is sponsored by: Chilean FONDAP Center for Astrophysics, European Southern Observatory, Joint Committee ESO-Chile, ALMA Fund, Universidad de Concepción, Universidad de Chile and Pontificia Universidad Católica de Chile, and Sociedad Chilena de Astronomía (SOCHIAS).

Please kindly forward this message to anyone you think might be interested in attending this School.

LOCAL AND SCIENTIFIC ORGANIZING COMMITTEE:

- Wolfgang Gieren, Chair (Universidad de Concepción)
- Manuela Zoccali, co-Chair (Universidad Católica)
- Ivo Saviane (ESO-Chile)
- René A. Méndez (Universidad de Chile)
- Grzegorz Pietrzynski (Universidad de Concepción)

LOGISTICS:

- Andrea Lagarini (ContactChile Comunicaciones)

QUESTIONS?

Any questions you might have should be addressed to:
school2007@astro-udec.cl

(cut, paste & email to:school2007@astro-udec.cl)

* Interested participants should fill in the pre-registration form provided below and return it to school2007@astro-udec.cl by 31 July 2006

***** PRE - REGISTRATION FORM *****

Full Name:

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Institution:

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email address:

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Postal address:

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Degree/educational status: (please mark with an "x")

Graduate student: ___

Advanced undergraduate: ___

Master: ___

PhD: ___

Postdoc: ___

Staff astronomer: ___

I will attend the School:

Likely: ___ Definitely: ___

I would like to present:

a poster: ___ a contributed talk: ___

Tentative title:

.....

I would need financial support for:

Travel: ___ Lodging: ___

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