MEMORIE DELLA SOCIETÀ ASTRONOMICA ITALIANA

Vol.85 n.3 2014

Local Group, Local Cosmology

Symposium V of EWASS 2013

Turku, July 08-09, 2013

editors: M. Monelli and S. Salvadori

TABLE OF CONTENTS

Index 453

Foreword 456

List of Participants 459

Session I: The Local Group

M. Monelli
Local Group 463

S. Salvadori
Local Cosmology 467

G. Battaglia
The internal kinematics and mass content of Local Group dwarfs from extensive spectroscopic surveys 471

D. Crnojević and the PAndAS collaboration
A PAndAS view of the resolved stellar populations in M31 dwarf elliptical satellites 476

Session II: SF through Cosmic Time

C. Gallart
Gas-rich vs. gas-poor: LCID insights on the origin of different dwarf galaxy types 481

M. Ricotti, O. Parry, E. Polisensky and M. Bovill
The Living Fossils of the First Galaxies 487

T.M. Brown, J. Tumlinson, M. Geha, E. Kirby, D.A. VandenBerg, J.S. Kalirai, J.D. Simon, R.J. Avila, R.R. Munoz, P. Guhathakurta, A. Renzini, H.C. Ferguson, L.C. Vargas and M. Gennaro
The Formation History of the Ultra-Faint Dwarf Galaxies 493

S. Cassisi
Stellar evolution models: current uncertainties and their impact on population synthesis tools 498

R. Leaman, K. Venn, A. Brooks, G. Battaglia, A. Cole, R. Ibata, M. Irwin, A. McConnachie, T. Mendel, E. Tolstoy and E. Starkenburg
Using Radial Metallicity Gradients in Dwarf Galaxies to Study Environmental Processing 504

E. SobacchiA. Mesinger
How does inhomogeneous reionization impact the gas content of galaxies? 509

E.R. Fernandez, S. Zaroubi, I.T. Iliev and B. Rabbit
Cumulative Light from the Epoch of Reionization - the Near Infrared Background and the 21cm Line 514

Session III: Chemical Evolution

K.A. Venn
Chemical Substructure and Inhomogeneous Mixing In Local Group Dwarf Galaxies 519

T.C. Beers
Carbon-Enhanced Metal-Poor Stars: Probes of Nucleosynthesis from the First Generation of Stars in the Universe 525

Y. Komiya, T. Suda and M. Fujimoto
Current signatures and search for Pop. III stars in the Local Universe 531

B. Lanzoni and the Cosmic-Lab Team
TERZAN 5: the remnant of a pristine fragment of the Galactic Bulge? 536

M. Pettini and R.J. Cooke
Metal-Poor Damped Lyα Systems: High-Redshift Analogues of Local Group Dwarf Galaxies? 542

J.H. Wise, M.J. Turk, M.L. Norman and T. Abel
Primordial Enrichment of the First Galaxies 548

Session IV: The Future

G. Bono, V.F. Braga, M. Fabrizio, R. Gilmozzi, R. Buonanno, I. Ferraro, G. Iannicola, M. Monelli, A. Milone, M. Nonino, L. Pulone, P.B. Stetson, F. Thevénin, A.R. Walker
Stellar populations in the ELT perspective 553

A.C. Robin, C. Reylé and X. Luri
Gaia: a new vision of our Galaxy and our neighbours 560

A.H. Pawlik, V. Bromm, and M. Milosavljević
Assembly of the first disk galaxies under radiative feedback from the first stars 565

Session V: Posters

A. del Pino Molina, S.L. Hidalgo and A. Aparicio.
Unravelling a complex system: The Fornax dwarf spheroidal galaxy. 570

A. Di Cecco, G. Bono, P.G. Prada Moroni, E. Tognelli, M. Monelli, R. Buonanno, I. Ferraro, G. Iannicola, M. Nonino and P.B. Stetson
On the absolute age of the globular cluster M71 574

M. Di Criscienzo, F. Dell'Agli, P. Ventura, R. Schneider, R. Valiante, F. La Franca, C. Rossi, S. Gallerani and R. Maiolino
Dust formation in the winds of low metallities AGBs and implications for cosmic dust enrichment 578

M. Di Criscienzo, M. Marconi, I. Musella, M. Dall'Ora, M. Cignoni and STREGA collaborators
The stellar survey STREGA@VST 582

P. Drazinos, E. Kontizas, M. Kontizas, A. Karampelas, A. Dapergolas, I. Bellas-Velidis and E. Livanou
Star forming regions in nearby galaxies: a potential application for Gaia's observations 585

M. G. Lee, H.S. Park and H.S. Hwang
Formation of M31 revealed from globular clusters 589

V. Golev and N. Kaltcheva
Star-Formation in the Coalsack Loop 593

T. Nykytyuk
A chemical evolution of Local dwarf galaxies: LeoI 597

T. Suda, J. Hidaka, M. Ishigaki, Y. Katsuta, S. Yamada, Y. Komiya, M.Y. Fujimoto and W. Aoki
Stellar Abundances for Galactic Archaeology Database for Stars in Dwarf Galaxies 600

P. Tenjes, T. Tuvikene, R. Kipper, A. Tamm and E. Tempel
Structure of spiral arms in M 31 604

R. Ženovienė, E. Stonkutė, G. Tautvaišienė and B. Nordström
Abundances of heavy elements in the kinematic stellar substructures 608