

Getting ready for Gaia: 3D structure of the ISM

Special Session 20 at the EWASS 2015

San Cristobal de La Laguna, June 25-26, 2015

editors: A. Monreal Ibero and R. Lallement

TABLE OF CONTENTS

<i>Index</i>	515
<i>Foreword</i>	517
<i>List of Participants</i>	519
G. Zasowski <i>Tracing Galactic Dust Kinematics with the Diffuse Interstellar Bands</i>	521
A. Monreal-Ibero, R. Lallement, L. Puspitarini, P. Bonifacio, and L. Monaco <i>Tracing differential reddening with Diffuse Interstellar Bands. The globular cluster M 4 as a testbed</i>	527
J. Th. van Loon, A. Farhang, A. Javadi, M. Bailey, and H.G. Khosroshahi <i>Probing the Local Bubble with Diffuse Interstellar Bands (DIBs)</i>	534
T. Zwitter, and J. Kos <i>Dynamical interstellar medium with Gaia and ground-based massive spectroscopic stellar surveys</i>	541
J. Maíz Apellániz <i>The ISM in O-star spectroscopic surveys: GOSSS, OWN, IACOB, NoMaDS, and CAFÉ-BEANS</i>	553
R. Mor, A. C. Robin, B. Lemasle, and F. Figueras <i>Impact of the uncertainties of the ISM when studying the IMF at intermediate masses</i>	562
S. E. Sale <i>Galactic 3D extinction maps</i>	568
A.C. Robin, D. Marshall, and C. Reylé <i>Making of 3D extinction maps from population synthesis approach</i>	579

- D.J. Marshall, L.A. Montier, M. Juvela, I. A. Grenier, P. McGehee, J. Montillaud, R. Paladin, V.-M. Pelkonen, and Q. Remy
The interstellar distance toolbox : deriving distances to current and future star forming regions. 589
- G. M. Green
A 3D Dust Map from Pan-STARRS 1 Photometry 598
- J. L. Linsky and S. Redfield
What is the Morphology of the Local Interstellar Medium and its Importance in the GAIA Era? 606
- Q. Remy, I. A. Grenier, D. J. Marshall, and J.M. Casandjian on behalf of Fermi LAT Collaboration
Modelling gas and dust in the Taurus and Perseus clouds with Fermi LAT and Planck data 616
- R. Lallement, J.-L. Vergely, L. Puspitarini, S. Snowden, M. Galeazzi, and D. Koutroumpa
Mapping the holes: 3D ISM maps and diffuse X-ray background 626
- J.E. Beckman, S.J. Chan, A. Li, and J. Borissova
Dust distribution in HII regions in nearby galaxies from optical and IR studies 635
- C. Morales-Durán, C. Rodrigo-Blanco, P. Cabo-Cubeiro, F. Llorente-de Andrés and E. Solano-Márquez
A Spanish-VO tool to estimate the spatial distribution of galactic interstellar extinction 639
- S. Rezaei Kh., C.A.L. Bailer-Jones, and R.J. Hanson
Getting ready for Gaia; Three-dimensional Modeling of Dust in the Milky Way 642