

**WORKSHOP**  
**Large Area Optical Spectroscopic Surveys:**  
**Science with 4MOST**

**FINAL PROGRAM**

**Program Version 09/11/2012**  
**(CT = Contributed Talks; Otherwise Invited Speakers)**

## Tuesday November 13<sup>th</sup> 2012

### 9:00-9:30 Registration

#### 4MOST Science: Follow up of Gaia & eRosita

(Chair: G. Gilmore)

- 9:30 – 4MOST in the context of the Science Roadmaps – R. de Jong
- 9:50 – Gaia Overview & Timeline & Input Catalogs for 4MOST – A. Brown
- 10:10 – eRosita Overview & Timeline & Input Catalogs for 4MOST – A. Schwope
- 10:30 – 4MOST Design Reference Surveys (overview) – C. Chiappini
- 10:50 – 4MOST Facility Simulator – T. Dwelly

11:10 – *Coffee Break*

#### 4MOST in the context of other spectroscopic Surveys

(Chair: P. Francois)

- 11:40 – WEAVE and 4MOST all-sky spectroscopic surveys in the Gaia era – S. Trager
- 12:00 – Gaia-ESO Survey – G. Gilmore
- 12:20 – RAVE – M. Steinmetz

#### Galactic System Surveys & Synergies with 4MOST

- 12:40 – 4MOST MW Halo Design Reference Surveys – A. Korn

13:00 – *Lunch Break*

(Chair: S. Trager)

- 14:00 – 4MOST MW Disk Design Reference Surveys – I. Minchev
- 14:20 – LSST and 4MOST – M. Rich
- 14:40 – The VVV Survey - M. Rejkuba
- 15:00 – Galactic Plane Surveys with H-alpha: spectroscopic follow-up opportunities – J. Drew
- 15:20 – CoRoT – A. Miglio
- 15:40 – APOGEE & AS3 APOGEE – P. Frinchaboy

16:00 – *Coffee Break + PHOTO 1*

(Chair: J. Drew)

- 16:30 – SkyMapper and 4MOST – S. Keller
- 16:50 – The VMC Survey – M. Cioni
- 17:10 – CT: 4MOST and the Magellanic Clouds - The MegaMaC Survey: O. Schnurr
- 17:25 – 4MOST: Search for very-metal poor stars – H. Ludwig

#### 17:40 – 18:30 Discussion – Moderator (G. Gilmore & N. Walton)

18:30 - End of Day 1

## Wednesday November 14<sup>th</sup> 2012

### 9:00-9:30 Registration

#### Extra Science – Galactic

(Chair: S. Keller)

- 9:30 – Galactic Science with eROSITA targets - R. Wichmann
- 9:50 – White Dwarfs – R. Napiwotzki
- 10:10 – CT: Constraining MW DM distribution with tidal streams - Sanderson
- 10:25 – CT: Metal poor-stars with 4MOST: how to chemically disentangle accreted debris – G. Cescutti
- 10:40 – CT: Stellar archaeology with GAIA and 4MOST: the 7<sup>th</sup> dimension – S. Greiss

11:00 – *Coffee Break*

(Chair: M. Steinmetz)

- 11:30 – CT: Improving the analysis methods in spectroscopic surveys – K. Lind
- 11:45 – CT: SPACE, a new code for stellar parameters values estimation – C. Boeche

#### Extragalactic and Cosmology Surveys (Part I)

- 12:00 – 4MOST eROSITA Galaxy Clusters Design Ref. Survey – H. Boehringer
- 12:20 – 4MOST eROSITA AGN Design Reference Survey – A. Merloni
- 12:40 – EMU – A. Hopkins

13:00 – *Lunch Break*

(Chair: P. Rosati)

- 14:00 – 4MOST redshift survey – F. Kitaura
- 14:20 – DESpec – D. Kirk
- 14:40 – Spectroscopic follow-up of the VST – ATLAS survey – T. Shanks
- 15:00 – The VISTA VIKING survey and 4MOST – W. Sutherland
- 15:20 – Euclid Overview – L. Guzzo

15:40 – *Coffee Break + PHOTO 2*

#### Extra Science – Extragalactic

(Chair: S. Driver)

- 16:10 – CT: Expanding the 4MOST AGN science case beyond DRs – T. Boller
- 16:30 – CT: AGN clustering measurements with eROSITA/4MOST: what can we learn? – M. Krumpke

**17:50 – 18:00 Panel Discussion (3 invited moderators + input from attendees)**

**Moderators : A. Brown (Gaia), A. Merloni (eRosita), L. Guzzo (Euclid)**

**18:00 - End of Day 2**

**DINNER: Meet at the restaurant at 19:30**

## Thursday November 15<sup>th</sup> 2012

### **Extragalactic and Cosmology Surveys (Part II)**

**(Chair: P. Nandra)**

9:30 – Radio survey follow-up – M. Jarvis

9:50 – The VHS Survey – M. Banerji

10:10 – GAMA – S. Driver

10:30 – BOSS/eBOSS – B. Nichol

10:50 – CT: Cosmological Forecasts for WEAVE, and Comparisons with the Euclid Spectroscopic Survey – E. Macaulay

*11:10 – Coffee Break*

### **Extra Science – Extragalactic**

**(Chair: B. Nichol)**

11:40 – CT: Studies of large scale structure with eRASS-AGN – A. Kolodzig

12:00 – CT: Optical identification of X-ray sources in nearby galaxies – M. Sasaki

12:20 – CT: High-resolution extragalactic science – J. Walcher

12:40 – 13:00 – Conference Closing – C. Chiappini

*13:00 – Lunch Break*

**14:00-16:00 Meeting of 4MOST SWP coordinators & Simulators – Moderator: O. Schnurr**