

Report to the IUPAP Council & Commission Chairs Meeting Singapore, 3-4 November 2014

Commission C4 – Astroparticle Physics Report on the period Nov 2013-Oct 2014

1. History of Cosmic Rays:

In the aftermath of the centenary of the discovery of cosmic rays in 2012, and in conjunction with a IUPAP supported conferences on the topic, a special issue of the journal “Astroparticle Physics” has been published with 22 articles presenting the history and current status of astroparticle physics research:

Astroparticle Physics 53 (2014) 1-190

2. C4 Name Change:

At the last C&CC meeting (Oct 2013) the name of C4 was changed from “Cosmic Rays” to the more inclusive “Astroparticle Physics”. The name change was initiated at the last General Assembly (2011) and C4 was charged to make a proposal after consultation of the community. A poll at the ICRC 2013 showed a large majority of the community in favour of the change, and at the Oct 2013 C&CC meeting the IUPAP Council unanimously adopted the change. The name change has been largely welcomed in the wider community. However, a small but vocal group opposed the name change. Detailed explanations to each argument have been sent in reply, which seemingly have been accepted, as opposition ceased.

3. Establishment of ApPIC:

The new name of C4 fits well to the newly formed WG10: Astroparticle Physics International Committee (ApPIC), which is supposed to be an advisory committee to the Global Science Forum of OECD and complements the Astroparticle Physics International Forum (APIF) of funding agency representatives. Members of ApPIC have been appointed by the IUPAP President (C Jarlskog), in consultation with C4 and the chair of ApPIC (Michel Spiro). ApPic’s charge is to review on a regular basis the scientific status of the field, maintain a continuous dialogue with, and give scientific advice to, APIF, liaise with other national and international bodies on assessment and road-mapping activities to promote global coherence of plans, projects and priorities in Astroparticle physics. The current membership of ApPIC can be found on

<http://iupap.org/working-groups/wg10-astroparticle-physics-international-committee-appic/>

4. New IUPAP / C4 Webpages:

The improved system used for the IUPAP webpages allowed also cleaning and update of the C4 pages, which are now accurate and current.

5. Meetings supported by IUPAP during 2014:

Astroparticle Physics 2014, Amsterdam
23–28 June 2014

(Chair: Gianfranco Bertone, U of Amsterdam)

<https://indico.cern.ch/event/278032/>

This conference brought together two major international conference series in Astroparticle Physics: the TeVPA (TeV Particle Astrophysics) and the IDM (Identification of Dark Matter)

ISVHECRI 2014, Int. Symposium on Very High Energy Cosmic Ray Interactions, CERN, Geneva

18–22 August 2014

(Chair: Ralph Engel, KIT)

<https://indico.cern.ch/event/287474/>

This conference covered results and models of hadronic interactions at high energies from the cosmic ray physics and particle physics communities with considerable interest to both sides.

COSPAR 2014, COSPAR Scientific Assembly, Moscow, Russia

2–10 August 2014,

(subsession on the Origin of Cosmic Rays; chair Mikhail Malkov)

<https://www.cospar-assembly.org>

6. Upcoming Meetings supported by IUPAP in 2015:

34th International Cosmic Ray Conference (“The Astroparticle Conference”),
30 July–6 August 2015, The Hague, The Netherlands

(Chair of organising committee: Ad van den Berg, University of Groningen)

<http://icrc2015.nl>

TAUP 2015: XIV International Conference on Topics in Astroparticle and
Underground Physics

7–11 September 2015, Torino, Italy

(Chair: Nicolao Fornengo, University and INFN Torino, Italy)

<http://taup2015.to.infn.it>

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Chair, IUPAP C4 – Astroparticle Physics