

First OBELICS meeting: aims and agenda

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1st OBELICS F2F
Rome, 26-27 January 2016



- The ASTERICS core work package.
- Targeting common ESFRI-projects « Data Challenges ».
- Scopes:
 - Enable interoperability and software re-use.
 - Enable open standards and software libraries for multi-messenger data.
 - Develop common solutions, share prototypes, exchange experience.
- Expected impact:
 - Economies of scale and saving resources.
 - Contribute to the construction and operation of ESFRI projects.



Radio

Infrared

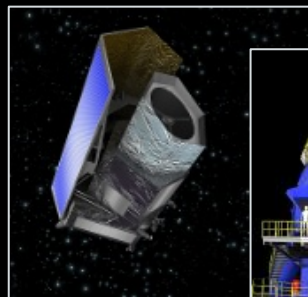
Visible light

X-rays

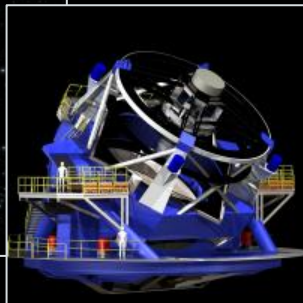
Gamma rays



LOFAR



EUCLID



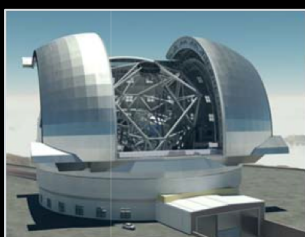
LSST



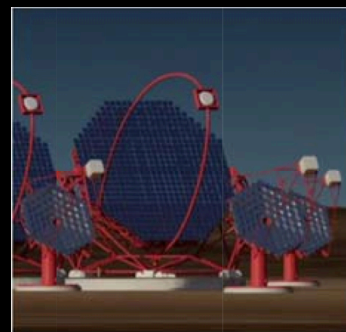
HESS



SKA



E-ELT



CTA

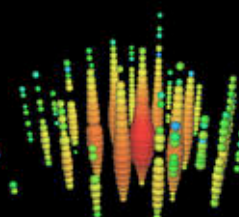
Gravitational Waves



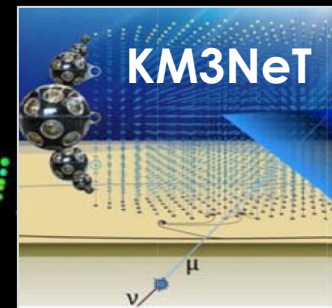
Cosmic-rays Neutrinos



LIGO & VIRGO



ICECUBE



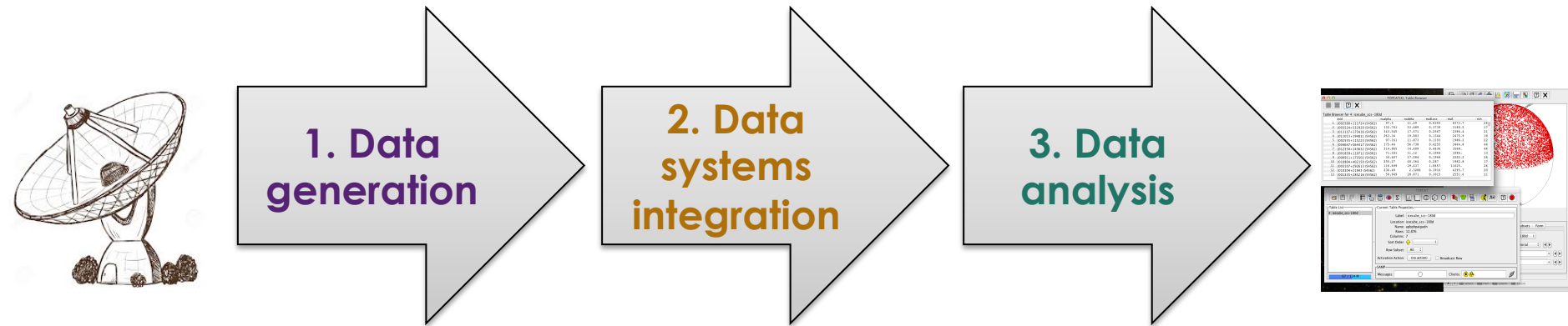
KM3NeT

Different probes/methods/specifications

Projects	Processing	Main requirements/challenges
EVENT-BASED (γ -rays, CR, ν) <u>CTA, KM3Net ...</u>	Evt-builder, calib. and reconstruction; reduction, real-time science.	Raw big-data (storage & HTC centres). Data formats. Algorithms. On-site operation and reduction. Cooperative science tools. Observatory (A&A). Multi- λ .
IMAGE-BASED (far-IR, VIS) <u>EUCLID, LSST ...</u>	Surveys/deep observation; combining photometer and spectrograph info.; Catalogue of objects.	Big-data products: data base challenges. Graphical processing, Algorithms. Images format. Catalogue preservation and query. HTC centres.
SIGNAL-BASED (Radio, GW) <u>SKA, LIGO-Virgo ...</u>	Noise cleaning; mathematical processing (FT) converting signal in images.	Algorithms. New computing architectures. HPC and HTC combined. Fast soft reduction. Data mining and preservation.



Working on commons along the “data flow”:



Twelve international partners cooperating around three main steps of data pipelines of major ESFRI projects in Astronomy.

OBELICS TASKS:

- 1. D-GEX: Data GEneration and information eXtraction**
- 2. D-INT: Data systems INTegration**
- 3. D-ANA: Data ANALysis/interpretation**

- The first face-to-face Task 3.4 working-group meeting.
- Setting up the first work-plans for task 3.2 and task 3.3.
- Planning commitments for first expected deliverables.
- Discussing OBELICS organization, results dissemination and project-plan revision.

Priority to discuss about
work in progress.



Towards the
organisation of other
tasks:



Update actions lists and
commitments



OBELICS f2f meeting in Rome

chaired by Giovanni Lamanna (LAPP/IN2P3/CNRS)

from Tuesday, 26 January 2016 at 14:00 to Wednesday, 27 January 2016 at 15:00 (Europe/Amsterdam)
at Rome (CNR - Aula Bisogno)

CNR - Piazzale Aldo Moro, 7 - 00185 Roma

Participants L. Angelo Antonelli; Pierre Aubert; Denis Bastieri; Cristiano Bozza; Eric Chassande-Mottin; Giuseppe Cimo; José Luis Contreras; Giulia De Bonis; Jeremie Decock; Tammo Jan Dijkema; Tarek Hassan; Jean Jacquemier; Rico Javier; Mark Kettenis; Cristina Knapić; Karl Kosack; Giovanni Lamanna; Marcos López; Marco Molinaro; Bojan Nikolic; Fabio Pasian; Carmelo Pellegrino; Matteo Perri; Vincent Poireau; Bernardino Spisso; Sebastiaan van der Tol

Registration Want to participate? [Apply here](#)

[Go to day](#)

Tuesday, 26 January 2016

Welcome and meeting objectives

Convener: Dr. Giovanni Lamanna (LAPP/IN2P3/CNRS)

14:00 **Welcome** 5'

Speaker: Dr. Angelo Antonelli (INAF-RM)

14:05 **Meeting aims** 15'

Speaker: Dr. Giovanni Lamanna (LAPP/IN2P3/CNRS)

Task 3.4

Format of the meeting session:

1. Each participating organisation in Task 3.4 to give a 15 minute presentation on their aims and plans.
2. Together we go through everybody's plans and identify overlaps and commonalities.
3. Planning for the May deliverable.

14:20 **Task 3.4 Work Plan (Partners vs ESFRIs)** 15'

Speaker: Dr. Bojan Nikolic (CAM)

14:35 **Presentations from partners** 1h45'

Speaker: Institutions represented: ASTRON, JIVE, INAF, INFN, CEA, UCAM, LAPP, ...

16:20 - 16:50 Break

Task 3.4

16:50 **Presentations from partners** 45'

Speaker: Institutions represented: ASTRON, JIVE, INAF, INFN, CEA, UCAM, LAPP, ...

17:35 **Discussions** 55'

18:30 **Views on first 12M deliverables** 15'

20:00 - 23:30 Social Dinner

Wednesday, 27 January 2016

Task 3.3

09:00 **Introduction to Task 3.3, short presentation about LOFAR integration challenges** 20'

Speaker: Dr. Tammo Jan Dijkema (Astron)

09:20 **Plans per institute and open discussion** 30'

Speaker: Dr. Tammo Jan Dijkema (Astron)

Task 3.2

09:50 **Introduction to Task 3.2 and discuss plans per partner.** 40'

10:30 - 11:00 Break

Project plan, management and deliverables

Convener: Dr. Giovanni Lamanna (LAPP/IN2P3/CNRS)

12:30 - 13:30 Lunch

Events and dissemination

14:30 - 15:00 Wrap-up and actions list 30'