



CERN has appointed three UniverseNet graduate students as ESR for 4 months each: Lotta Mether, Nicholas Harries, and Charalampos Bogdanos.

The 1<sup>st</sup> UniverseNet school was held in Greece – more on page 2.

Most of the ESR-ERs appointed have started work already (with the exception of Lotta Mether who will start in January 2008).

Concerning the task 'Origin of Cosmic Rays', there was a breakthrough by the Auger Collaboration (which includes UniverseNet members in Paris and Oxford) who established a significant correlation between the highest energy cosmic rays and active galactic nuclei which harbour supermassive black holes. (see <http://www.auger.org/news/>)

UniverseNet members have been involved in organising and speaking at over 60 workshops and conferences in the past year.

UniverseNet members have produced 161 relevant publications, 61 of which were inter-Team collaborations

### ESR- ER information

#### “ESR/ ER – space”

**Learn a bit about our ESR Nick – Nicholas Harries**  
(nicholas.harries@new.ox.ac.uk).

I am in my final year of my DPhil at Oxford University under the supervision of Graham Ross and am currently visiting CERN under a UniverseNet studentship under the supervision of John Ellis.

My main research interests are in astroparticle physics and particle cosmology. I am particularly interested in what we can learn about the neutrino sector and physics beyond the standard model from a future galactic supernova and from cosmology.

Outside of physics I enjoy many sports, particularly football and golf and I have recently started snowboarding lessons.



We thank all our senior members who have agreed to act as a “mentor” for our ESR/ER.

Team	Researcher	Mentor
1. Oxford - ESR	Phillipp Mertsch	Herbi Dreiner
2. Lancaster - ER	Narendra Sahu	Serguey Petcov
3. KCL - ESR	Anna Kostouki	Magda Lola
4. IFAE - ER	Thomas Konstandin	Christophe Grojean
5. Bonn - ESR	Suchita Kulkarni	Sacha Davidson
5. Bonn - ER	Eun Kyung Park	Celine Boehm
7. Copenhagen	Hael Collins	Denis Comelli
9. Helsinki - ESR	Diana Battefeld	Mairi Sakellariadou
9. Helsinki – ER	Gerasimos Rigopoulos	Konstantinos Dimopoulos
10. Ioannina - ER	Nicolas Chatillon	David Langlois
10. Ioannina - ER	Katarzyna Zuleta	Ruth Gregory

## “UniverseNet School report”

**UniverseNet held its annual school and network meeting in Mytilene on the island of Lesbos, Greece. (24-29 September 2007)**

The school was very well attended - there were about 170 participants of whom about 50 were postdocs and students from outside the network.



**UniverseNet School participants**

We were fortunate to hear excellent lectures delivered by Pokorski, Strumia, Langlois, Riotto, Challinor, Peacock, Copeland, Ullio, Knapp and Quevedo - about half of the lecturers were invited from outside the network.

In the afternoons we had many stimulating short talks by the young researchers - there were many more offers than we could accommodate in the limited time so we had to give priority to network members here.



**School participants- coffee break**

On the final day we held the network meeting and we heard reports from the Task coordinators on what we have been doing and suggestions for future work. The network Coordinator gave the overall report on UniverseNet activities and invited the young researchers supported by the network to come up and introduce themselves.



**The “organizers”**

There were some minor hiccups with the local arrangements but overall everyone had a great time (especially on an afternoon excursion and at the banquet provided by the Municipality). We are sure many new friendships were made and the seeds of future collaborations sown.



**“Petra & Molyvos”**

**Photo by: Dr. R. Armillis**



**Afternoon excursion**

**Photo by: Dr. J. Roberts**

**All the lectures and talks can be downloaded from the school webpage:**

[http://www.physics.ntua.gr/cosmo07/UniNet/sci\\_prog.html](http://www.physics.ntua.gr/cosmo07/UniNet/sci_prog.html)

**Photos are now online:**

<http://www.physics.ntua.gr/cosmo07/UniNet/photos.html>

## Univesenet website

**Find time to visit our website and send us suggestions, corrections, ideas!!**

*We keep our website up-to-date and with (hopefully!) useful information:*

*Publications,  
ESR-ER researchers,  
Events,  
Outreach,  
And others...*

<http://www.physics.ox.ac.uk/universenet/>

## Univesenet School in Oxford

*As part of the UniverseNet network we are preparing for the Second Annual Network School and Meeting. It will be held in Oxford, 22-25 September 2008, followed by the mid-term review meeting on 26 September 2008.*

*Please mark this in your diaries ... more information will be provided soon!*

## “Univesenet in Numbers”

Partners	<b>16</b>
Members	<b>270</b>
Institutions	<b>39</b>
ESR appointed/ total	<b>9/ 10</b>
ER appointed/ total	<b>9/11</b>
Publications	<b>141</b>
Month in the project/ total	<b>13/48</b>

## “Univesenet Periodic Report”

During October and November, UniverseNet partners, researchers, fellows and administrative staff worked together to prepare the first annual report to the European Commission.

**Thank you to everyone who contributed to this big work!**

You can find the report on our website.

## Univesenet Publications

**Please let us know about your PUBLICATIONS!!!! And about your talks, meetings, etc ...**

**And do remember to acknowledge the network when appropriate:** "This work was supported (or partially supported) by the EU FP6 Marie Curie Research & Training Network "UniverseNet" (MRTN-CT-2006-035863)".

**Inter-team publications** are very important to our network!!!

*If there is anything you would like posted in future Bulletins, please contact Ana Malhado [univesenet@physics.ox.ac.uk](mailto:univesenet@physics.ox.ac.uk)*