

# **RICAP'07 - Roma International Conference on Astroparticle Physics**

**Wednesday, June 20, 2007 - Friday, June 22, 2007**

**University of Roma "La Sapienza"**

## **Scientific Program**

## Plenary Sessions Preliminary Program

### Extensive air showers:

- Auger (including review of AGASA and HiRes results) --> UHECR
- Review on Cascade, IceTop, TUNKA, ...

### Gamma Ray Astronomy on ground:

- Air shower particle detectors: Argo, Tibet, ...
- Water Cherenkov detectors: Milagro (and perspectives with HAWC)
- Imaging atmospheric Cherenkov Telescopes: HESS, MAGIC, VERITAS, CANGAROO, ...

### Review of future EAS, IACT and fluorescence detectors (ASHRA, CRTNT, TUNKA-133, CTA ..)

### High Energy Neutrino Telescopes:

- IceCube/AMANDA
- Baikal (NT200 since 10 years, GVD planned)
- Cherenkov neutrino Telescopes in Mediterranean Sea and future perspectives: ANTARES, NEMO, NESTOR, KM3NeT
- Review and perspectives on "acoustic detection" of Ultra High Energy neutrinos (ANITA-lite, RICE, GLUE, FORTE, SALSA, AURA, ARIANNA..)
- Review and perspectives on "radio detection" of Ultra High Energy neutrinos

### Space Detectors:

- AMS, PAMELA, AGILE, GLAST, INTEGRAL
- Review on future experiments (EUSO, OWL, ...)

### Theory:

- Dark Matter
- Ultra High Energy cosmic rays and neutrinos (galactic and extragalactic sources, limits, fluxes, GZK, GZK neutrinos, ZBurst neut.)
- Neutrinos from Gamma Rays sources
- Review on acceleration theories, emission and transport

### Parallel sessions:

- according to contributed papers

### Poster session

- according to contributed papers