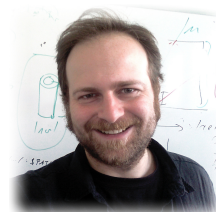


CONTACTS,
EDUCATION
AND TRAINING

PIETRO OLIVA

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**M.Sc. IN PHYSICS, MAJOR ASTRO-
PHYSICS AND SPACE PHYSICS (2008) UNI.
"SAPIENZA" DI ROMA.**

THESIS TITLE: *Inclined Air Showers and Astronomy with Ultra High Energy Neutrinos.*

**SECONDARY SCHOOL CERTIFICATE, 52/60 (1992 - 1996) ISTI-
TUTO TECNICO COMMERCIALE "VILFREDO PARETO", ROMA.**

WORK EXPERIENCE

from 08/2013 RESEARCH ASSOCIATE (A TYPE) & ADJUNCT PROFESSOR UNIVERSITÀ
DEGLI STUDI NICCOLÒ CUSANO -TELEMATICA DI ROMA- IN

- ELECTRICAL AND ELECTRONIC MEASUREMENTS (9 CFU);
- MEASUREMENTS & AUTOMATION (9 CFU);

@ FACULTY OF ELECTRICAL ENGINEERING.

02/2013 → 10/2013 SOGIN (NUCLEAR DECOMMISSIONING), LIV. A1, R&D NATIONAL
REPOSITORY AND TECH. PARK.

from 07/2012 TUTORING/EXAM COMMITTEE GENERAL PHYSICS, UNI. E-CAMPUS (PROF.
BENNATI).

10/2008 → 10/2010 WISSENSCHAFTLICHER MITARBEITER (RESEARCH ASSOCIATE) AT
BERGISCHE UNIVERSITÄT WUPPERTAL. GROUP: PIERRE AUGER SOUTH OBSERVA-
TORY.

06/2008 → 09/2008 COLLABORATION CONTRACT/ SUMMERSTUDENT AT MAX PLANCK
INSTITUTE FÜR NUCLEAR PHYSICS (MPIK), HEIDELBERG. GROUP: ICE CUBE OB-
SERVATORY.

Freelance/Extracurricular 06/2011: GRAPHIC AND PHOTOGRAPHER "CENTER FOR RUS-
SIAN STUDIES" UNIVERSITY SAPIENZA, ROME.

08/2011: PHOTOGRAPHER FOR DAIICHI-SANKYO WORKSHOP. SETOUT AGENCY.

11/2011: PHOTOGRAPHER FOR JOHNSON & JOHNSON. NOTRE DAMES AGENCY.

12/2011: PRODUCTION ASSISTANT. SETOUT AGENCY.

02/2012: GRAPHIC DESIGNER, PHOTOGRAPHER AND SCIENTIFIC COMMITTEE "LA
SCUOLA IN VILLA" (II MUNICIPIO, COMUNE DI ROMA)

05/2012: PHOTOGRAPHER FOR ANGELINI PHARMA. SETOUT AGENCY.

11/2012: PHOTOGRAPHER FOR CAMPUS ANGELINI PHARMA. SETOUT AGENCY.

LANGUAGES

ITALIAN (MOTHER TONGUE), ENGLISH (FLUENT), FRENCH (FLUENT)
GERMAN (SCHOLASTIC), RUSSIAN (BEGINNER).

COMPETENCES

Technical skills FIELDS OF INTEREST: HIGH ENERGY ASTROPHYSICS, HIGH/ULTRA HIGH ENERGY COSMIC RAYS, EXTENDED AIR SHOWERS, ČERENKOV AND FLUORESCENCE DETECTORS, ARRAY DETECTORS, NEUTRINO ASTRONOMY, RADIO DETECTION OF EAS, GRB AND SGR. DETECTION AND MEASUREMENT OF RADIOACTIVITY α , β AND γ . ON-FIELD: GOOD SKILL WITH GENERIC MECHANICS LAB TOOLS. ELECTRONICS LABORATORY EXPERT.

Organizational HIGH TENDENCY TO SOCIALIZE, ORGANIZE AND NATURAL ATTITUDE FOR TEAMWORK. EXHIBITS AND GRAPHICS CONSULTANT WITHIN THE BUDGET. BEST ASTROPARTICLE COURSE TUTOR 2010 AT BUW UNIVERSITY. GRAPHIC DESIGNER AND LOGISTICS "SAROS" EXHIBIT, GRAPHIC DESIGNER AND LOGISTICS "A SPECIAL SOLAR DAY" EVENT.

Artistic PHOTOGRAPHY (ANALOG AND DIGITAL). EXPERIMENTAL PHOTO, ARCHITECTURES (EXTERIOR), ARTWORK. COMPUTER AND WEB GRAPHIC, PHOTO MANIPULATION. PORTFOLIO: <http://photo.net/photos/Rebis>, <http://3-rebis-3.deviantart.com/>
EXHIBITS: ARTE ACCESSIBILE 03/2011 AT BRANACALEONE DI ROMA. MEZZOPIENO LOUNGE BAR ROMA 10/2011 (PERSONAL).

COMPUTER SKILLS

Operating Systems UNIX/LINUX (UBUNTU, DEBIAN), WINDOWS (FROM '95 TO 7), MAC OS X LEOPARD.

Servers and databases OPENSSSH, SUBVERSION, CUPS, MYSQL.

Languages C++, PYTHON, L^AT_EX 2_ε, HTML, CSS, XML/XSS.

Browsers EXPLORER, FIREFOX, SAFARI, OPERA.

App. OFFICE/OPENOFFICE, ORIGIN (50 E 70), GNU PLOT, ROOT v5.26, PHOTOSHOP (7.0 TO CS5), PHOTOMATIX/QTPFSGUI, BEAM4, CORELDRAW, INKSCAPE, ILLUSTRATOR.

FURTHER PERSONAL INTERESTS

PHILOSOPHY, HISTORY OF RELIGIONS, HERMETIC, ANCIENT COSMOGONIES, SYMBOLICS, ANTHROPOLOGY, PSYCHOLOGY, ARCHITECTURE, HISTORY OF KNOWLEDGE, ART, MUSIC, CINEMA.

SEMINARS

Cosmogonies: a History of Mankind and Symbols, INVITED TALK, MAY THE 16TH, 2011; AT "UNIONE OPERAIA DI COLONNATA"
http://dl.dropbox.com/u/30018431/Mito_e_Logos.pdf

Reflecting on MAGIC reflections, INVITED TALK, DECEMBER 3RD, 2007; AT INSTITUTO DE ASTROFÍSICA DE CANARIAS.
http://mojorojo.magic.iac.es/grbworkshop/talks/01liva_ReflectingOnMagicReflections.ppt .

The meaning of the UHECR Hot Spots: A Light Nuclei Nearby Astronomy submitted EPJ Web of Conferences.

Crossing muons in Icecube at highest energy: Cornerstone to neutrino astronomy. Nuclear Physics B, (Proc.Suppl.) 256-257 (2014) -2013-217.

The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. JCAP11 (2011) 022.

Trigger and Aperture of the Surface Detector Array of the Pierre Auger Observatory . As Member of The Pierre Auger Collaboration. NIM A613 (2010), 29-39.

The Lateral Trigger Probability function for the Ultra-High Energy Cosmic Ray Showers detected by the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. Astroparticle Physics 35 (2011) 266-276.

Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. Accepted for publication in Astroparticle Physics.

Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. JCAP06 (2011) 022.

Search for First Harmonic Modulation in the Right Ascension Distribution of Cosmic Rays Detected at the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. Astropart.Phys.34:627-639,2011.

Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. Nuclear Instruments and Methods in Physics Research, A.

Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter. As Member of The Pierre Auger Collaboration. Accepted for publication in Astroparticle Physics on 31 August 2010.

The Fluorescence Detector of the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. Nuclear Instruments and Methods in Physics Research Section A.

Calibration and Monitoring of the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. Contributions to the 31st International Cosmic Ray Conference, Lodz, Poland, July 2009.

Operations of and Future Plans for the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. Contributions to the 31st ICRC, Lodz, Poland, July 2009.

Astrophysical Sources of Cosmic Rays and Related Measurements with the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. 31st International Cosmic Ray Conference, Lodz, Poland, July 2009.

Studies of Cosmic Ray Composition and Air Shower Structure with the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. 31st International Cosmic Ray Conference, Lodz, Poland (July 2009).

The Cosmic Ray Energy Spectrum and Related Measurements with the Pierre Auger Observatory. As Member of The Pierre Auger Collaboration. 31st International Cosmic Ray Conference.

Baily's beads atlas in 2005-2008 eclipses. Solar Physics, Volume 258, Issue 2, pp.191-202.

The XRF080109-SN2008D and a decade of GRB-Jet-SN connection. SIF, Conf. Proceedings. Vulcano Workshop 2008; page, 351-362 .

Reflecting on Čerenkov reflections. HEP 2007 J.Phys. Conf.Ser. 110:062008, 2008.

Čerenkov Flashes and Fluorescence Flares on Telescopes: New lights on UHECR Spectroscopy while unveiling Neutrinos Astronomy. Nuclear Inst. and Methods in Physics Research, A; 2008, Vol 588/1-2 pp 146-150.

Splitting neutrino masses and showering into Sky. Nucl.Phys. B, Vol 168; 292-295; 2007.

Solving GRBs and SGRs puzzles by precessing Jets. Proceedings of the 4th Workshop, Isola d'Elba, Italy 20-22 June 2006, p.133-142, world Sc. Publ., 2007.

Updated Z-Burst Neutrinos at Horizons. Nuclear Physics B (Proc. Suppl.) 165 (2007) 116,121.

UHE Cosmic Rays and Neutrinos Showering on Planet Edges. Nuclear Physics B (Proc. Suppl.) 165 (2007) 207, 214.

Solar Oblateness from Archimedes to Dicke. Nuovo Cimento B, vol. 120, Issue 10, p.1181 2005.

Astrometry and Relativity II: Solar Grazes & Solar Diameter. Journal of the Korean Physical Society, Vol. 49, No. 2, 2006, pp. 840-844.