



#### PERSONAL INFORMATION

Family Name, First name: Tartaglia Roberto  
Nationality: Italian  
Date of Birth: 25 July 1960

Senior Researcher  
Laboratori Nazionali del Gran Sasso, AQ, Italy  
Via G. Acitelli, 22 - 67100 L'Aquila - Località Assergi

Email: roberto.tartaglia@lngs.infn.it  
SkypeName: roberto.tartaglia

#### PERSONAL DATA

Italian citizen, married, one daughter.

#### EDUCATION

1992 - 1993 Master – Health & Safety, Università degli Studi di Roma, Italy  
1987 Technical Course for software and analyses programmers, ITALSIEL, Rome, Italy  
1985 - 1986 Officers Course, Artillery School, Sabaudia (LT), Italy  
1979 - 1985 Laurea in Ingegneria (100/100) -Ingegneria Nucleare - Università degli Studi di Bologna  
1974 – 1979 Diploma (60/60) - Liceo Scientifico Statale “L. Da Vinci” - Pescara

#### CURRENT POSITION(S)

1991 - present INFN - National Institution for Nuclear Physics- Senior Researcher,  
LNGS -Gran Sasso National Laboratories, Assergi (AQ), Italy

#### PREVIOUS POSITIONS

1988 - 1990 Fellowship @ CERN – TIS Division, Geneva, Switzerland  
1987 - 1988 Employee Data Base Programmer and Analyst – ORACLE Environment (SQLPLUS)  
ITALSIEL S.p.A., Rome, Italy  
1986 - 1987 Officer, Italian Army, Ravenna Italy,

#### HONORS

2015 - 2016 Assignment of a Teaching contract for a course at Department of Civil and  
Industrial Engineering - UNIROMA1 - Roma - Safety Subjects  
2010 Second step in INFN career – Dirigente Tecnologo  
2008 Winner of a selection at CERN - fixed term contract for Safety – HSE Unit  
2008 – 2014 Assignment of a Teaching contract for a course at Department of  
Industrial Engineering – UNIMARCONI – Roma – Safety subjects.  
2000 First Step in INFN career – Primo Tecnologo  
1997 – 2016 Head of the LNGS Prevention and Protection Service  
1993 Winner of a selection for a staff position at INFN – LNGS  
1992 – 2015 Responsible of the Borexino-LNGS Group  
1992 – 2000 Borexino Site Manager  
1991 Assigned of a fixed term contract by INFN - LNGS  
1988 - 1990 Fellow, CERN, CH, Geneva, assigned to TIS Division

#### EXPERIMENTS and COLLABORATIONS

2014 – present URANIA-2020  
2009 – 2010 DarkSide (Direct Dark Matter Search) – external advisor  
2004 – 2006 ILIAS  
1991 – 2015 Borexino (Low Energy Solar Neutrinos), Responsible of the LNGS Group



#### COMMITTEES

- 2014 - International Carnahan Conference on Security Technology (ICCST) – Organizing Committee - Rome
- 2014 - International Technical Safety Forum (ITSF) – Italian Coordinator – FNAL
- 2013 - Conference on Safety Responsibilities– Organizing Committee – L’Aquila
- 2010 - External Advisor for DUSEL Collaboration - South Dakota, USA
- 2010 - Conference on the Safety Management System (SGSL) – Organizing Committee – LNGS
- 2010 - International Technical Safety Forum (ITSF) – Organizing Committee – CERN
- 2009 - External Auditing Committee on Safety) Committee at CERN
- 2008 - International Technical Safety Forum (ITSF) – Organizing Committee – JLAB
- 2006 - External Advisor for HUSEP Collaboration - Colorado, USA
- 2006 - International Technical Safety Forum (ITSF) – Organizing Committee – RAL
- 2005 - National workshops in the field of Safety – LNGS - INFN
- 2004 - ILIAS WP on Safety - member
- 2004 - National workshops in the field of Safety – Genova, Cagliari - INFN
- 2003 - International Technical Safety Forum (ITSF) – Organizing Committee and Chair - LNGS
- 2001 - International Technical Safety Forum (ITSF) – Organizing Committee – FNAL

#### PROFESSIONAL SERVICES and MEMBERSHIPS

1987 – present – registered into the official “board” of professional Engineers – Pescara

#### RESEARCH INTERESTS

Senior researcher, expertise in different fields related to safety (HSS - Health, Safety and Security at work). These fields can be summarized as follows.

- \* Risk Assessment: application of both Loss Prevention techniques (DOW and HAZOP methodologies) and reliability techniques in the evaluation of safety criteria adopted and to be adopted in process plants.
- \* Organization and management of the Safety of the Laboratories, with particular care to the improvement of the safety requirements for the Experiments @ LNGS and to the definition of the rules and procedures to be respected in the safety fields, as Responsible of the Prevention and Protection Service.
- \* Member of National and International Committees in the Safety field: Safety tutoring and teaching.
- \* Safety:
  - Emergency procedures and evacuation plans.
  - Risk Assessment, Safety Management, Training and Education,
- \* Engineering:
  - Chemical Processes, CFD, Mechanical and Process Plant, Safety Plants, Nuclear Plants
- \* Management:
  - Business Administration, budget planning, time planning/scheduling.
  - Organization and management of all the "on-site" works performed during the installation and realization of a prototype of the BOREXINO Experiment, a real-time detector in the field of solar neutrino research. Local Responsible of the BOREXINO LNGS-Group; the annual budget is of about 0.5 Million \$. The total budget foreseen for the Detector is of about 40 Million \$. The realization and the filling of the Detector has been completed in May, 2007. Currently we are in the phase of data taking and analyses.
- \* Physics:
  - Solar and Supernova Neutrinos; Dark Matter;
  - Low-counting experiments and background;
  - Distillation Processes for rare isotopes production.

#### GRANTS AWARDED (EU Project member)

- 2014 - URANIA-2020
- 2004 - ILIAS WP on Safety

#### SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

Starting in the year 2000, about 50 students have been advised, in co-operation with the Engineering Department of different Universities: L'Aquila, Bologna, Ancona, Roma (La Sapienza e UniMarconi).



### TEACHING, EDUCATION, OUTREACH

Starting in 2008, co-operation with University of Rome - La Sapienza e UniMarconi- for teaching in different subjects related to safety fields.

Different sessions as invited teacher and/or tutor in local and national educational, training and professional courses, both with professional registered orders (Technicians, Engineers), associations and private companies.

During the LNGS activities, continuous training and education to the LNGS Users: a total amount (averaged) of about 500 users are attending the safety briefing courses every year.

In the last years, fully involved in the fellowship program funded by the Abruzzi Region thanks to the European training funds. Moreover, some fellowships are also coming from INFN fellowship program.

Here a list of fellowship whose "tutoring" or "teaching" has been guaranteed follows:

2015 - 2017	Castri Daniele	- INFN Research Grant
2014 - 2016	Perruzza Roberto	- INFN Research Grant
2012 - 2014	Perruzza Roberto	- INFN fellowship
2009 - 2011	Venti Isa	- INFN fellowship
2007 - 2009	Montanari David	- INFN fellowship
2007 - 2009	Caprara Mario	- INFN fellowship - undergraduate
2004 - 2005	Battistelli Sara	- INFN fellowship - undergraduate
2003 - 2005	Tobia Marco	- INFN fellowship
1998 - 2000	Gazzana Stefano	- INFN fellowship
1998 - 2000	Goretti Augusto	- INFN fellowship
2014 - 2016	Musti Mafalda	- EU - POR fellowship for graduates
2014 - 2016	Ranalli Maria Teresa	- EU - POR fellowship for graduates
2013 - 2014	Paris Michela	- EU - POR fellowship for graduates
2013 - 2014	Castri Daniele	- EU - POR fellowship for graduates
2013 - 2016	Gabriele Federico	- EU - POR Research Grants
2012 - 2014	Bonfini Giuseppe	- EU - POR Research Grants
2010 - 2011	Gabriele Federico	- EU - POR fellowship for graduates
2010 - 2011	Bonfini Giuseppe	- EU - POR fellowship for graduates
2007 - 2008	Bonanni Fabio	- EU - POR fellowship for undergraduates
2007 - 2008	Di Vincenzo Luca	- EU - POR fellowship for undergraduates

LNGS, Assergi (AQ), Italy  
Monday, February 16, 2017

Roberto Tartaglia



### **PERSONAL INFORMATION**

Family, First Name: Formicola, Alba  
Marital status: married, with one child  
orcid.org/0000-0002-0152-5744  
Date of birth: October 18, 1972  
Nationality: Italian

### **EDUCATION**

2004 - PhD degree (approved Magna cum laude), Ruhr-Universität Bochum, Experimentalphysik III Bochum, Germany, Thesis on: A new study of  $^{14}\text{N}(p,\gamma)^{15}\text{O}$  at low energy (in English)  
Supervisor: Prof. Dr. Claus Rolfs  
1999 - Diploma di Laurea in Fisica (108/110), Università Degli Studi di Napoli Federico II Napoli, Italy, Thesis on: Experimental study of electron screening effect for the  $d(^3\text{He},p)^4\text{He}$  reaction at low energies.  
Supervisors: Prof. M.Romano and Prof. F.Terrasì

### **CURRENT POSITION AND QUALIFICATIONS**

2014 - Full-time permanent researcher position- Experimental Nuclear Physics at Istituto Nazionale di Fisica Nucleare (INFN) - Laboratori Nazionali del Gran Sasso (LNGS) Assergi, Italy.  
2014 - National scientific qualifications as associate professor in the sector "Experimental physics of fundamental interactions"

### **PREVIOUS POSITIONS AND FELLOWSHIPS**

2008 -2013 - Fixed-term Researcher in the framework of the LUNA experiment and Special Techniques of Low Background Measurements, at INFN -LNGS, Italy.  
2006 - 2008 - Post- doctoral fellowship dedicated to the study of Nuclear Astrophysics processes connected to low radioactivity measurements in the framework of the LUNA experiment and Special Techniques of Low Background Measurements, at INFN - LNGS, Italy  
**Supported by EU, ILIAS-TA RI13-CT-2004-506222.**  
2004 - 2006 - Post- doctoral fellowship related to the experimental research in Nuclear Astrophysics, at INFN -LNGS, Italy  
1999 - 2000 - Undergraduate fellowship in the framework of the LUNA experiment at INFN-LNGS, Italy  
*On maternity leave from March to August 2006.*

### **SUPERVISION OF STUDENTS AND POSTDOCTORAL FELLOWS**

Thesis: "Characterization of gamma spectrometer for a very low activity measurements" graduate student E. Lericci at Università degli Studi di Torino (Italy)-October 2014; Co-supervisor Dr.rer.nat. A .Formicola

Thesis: "Underground Study of the  $^{17}\text{O}(p,\gamma)^{18}\text{F}$  Reaction at Gamow Energies for Classical Novae" PhD student A.D.Scott at University of Edinburgh (UK)-July 2014; Co-supervisor Dr. rer.nat. A.Formicola

#### *Postdocs:*

Dr. Andrea Molinario, Xenon experiment, Dark Matter, 2016-2018  
Dr. Vincenzo Caracciolo, Dama experiment, Dark Matter, 2016-2018  
Dr. Gianmarco Bruno, LVD experiment, Neutrino Astrophysics, 2015-2017  
Dr. Iza Kochanek, LUNA experiment, Nuclear Astrophysics, 2015-2017  
Dr. Lucia Canonica, Cuore experiment, Double Beta Decay, 2015-2016

### **INSTITUTIONAL RESPONSIBILITIES**

2015- 2019 - Head of Research Division, INFN Gran Sasso Laboratory  
2014 - 2018 - Local coordinator of Laboratori Nazionali del Gran Sasso Assergi for National Nuclear Physics Scientific Committee  
2016 - Referee evaluation for Cineca, MIUR



## OUTREACH AND FORMATION ACTIVITIES

2016-2017 and 2014-2015 SHARPER EU- Reserchers' Night –L'Aquila-Italy  
2016 –Principal Investigator of the PILA project, call for the disseminatation for scientific culture, funded by MIUR with 125kE.  
2013 - Coordinator of Formation Grants (section A) inside the Project: PO FSE ABRUZZO 2007-2013  
2010 and 2011 –Princeton-South Dakota-Gran Sasso Summer School  
*More than 30 seminars for high school on Physics*

## ORGANISATION OF INTERNATIONAL CONFERENCES

Oct 13 - 14 2015 - Member of the Advisory committee: DULIA-bio -Deep Underground Laboratories Integrated Activities in biology) - Canfranc, Spain.  
February 6-8 2013 and February 10-11 2011 - Member of the Local Organizing Committee as scientific secretary: International Worskshop Round Table “LUNA-MV at LNGS”, Assergi, Italy.  
April 3-8 2011 Member of the International Programme committee: Nuclear Physics in Astrophysics V – NPAV XXIV International Nuclear Physics Divisional Conference of the EPS A Europhysics Conference - Eilat, Israel.  
June 8 - 12 2009 - Member of the Local Organizing Committee as scientific secretary: Nuclear Physics in Astrophysics IV – NPAIV- XXII International Nuclear Physics Divisional Conference of the European Physical Society A Europhysics Conference - Laboratori Nazionali di Frascati e del Gran Sasso, Frascati, Italy.  
*Coming Soon:*  
September 4-8, 2017: Member of the Local Organizing Committee : International Worskshop “Recent Developments in Neutrino Physics and Astrophysics” Laboratori Nazionali del Gran Sasso Assergi, Italy.  
2018, Date to be defined: Chair of the Local Organizing Committee: 15<sup>th</sup> International Symposium on Nuclei in the Cosmos XV Laboratori Nazionali del Gran Sasso Assergi, Italy .

## SCIENTIFIC OUTPUT

62 papers on international refereed journals and 1 review on Report on Progress in Physics  
12 papers without PhD supervisor  
Sum of the times cited: 1894  
Without self citation 1590  
Average citation per papers on international refereed journals: 30.6  
h-index: 23  
(data from: ISI Web of knowledge)

**Monograph:** Publishing Agreement with Springer (DocuSign Envelope ID: 426CDFBE-6FB0-41DB-B46F-0FBD622D77E0) for Graduate and advanced undergraduate textbook.  
Authors: Prof. Scilla degli Innocenti, Dr. Formicola Alba, Prof. Laura Marcucci, in print 2017.



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April 3-8 2011Member of the International Programme committee: Nuclear Physics in Astrophysics V – NPAV XXIV International Nuclear Physics Divisional Conference of the EPS A Europhysics Conference - Eilat, Israel.  
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2018, Date to be defined: Chair of the Local Organizing Committee: 15<sup>th</sup> International Symposium on Nuclei in the Cosmos XV Laboratori Nazionali del Gran Sasso Assergi, Italy .

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Authors: Prof. Scilla degli Innocenti, Dr. Formicola Alba, Prof. Laura Marcucci, in print 2017.



## Curriculum vitae

### PERSONAL INFORMATION

*Name, surname:*

Matthias Laubenstein

*Researcher's unique identifiers:*

ORCID: 0000-0001-5390-4343

ISNI: 0000000401025322

ResearcherID: C-4851-2013

Scopus Author ID: 8582308400

Nationality: German

Date of birth: October 8<sup>th</sup>, 1966

### EDUCATION

1996 PhD (Doktor der Naturwissenschaften, Dr. rer. nat.)  
Faculty of Physics, Ruprecht-Karls-Universität Heidelberg, Germany

1992 Master (Diplom)  
Faculty of Physics, Ruprecht-Karls-Universität Heidelberg, Germany

### CURRENT POSITION(S)

2004 – Researcher  
Research Division, INFN - Laboratori Nazionali del Gran Sasso, Assergi  
(AQ), Italy

### PREVIOUS POSITIONS

2003 – 2004 Scientific collaborator  
Consorzio di Ricerca del Gran Sasso, Assergi (AQ), Italy  
Università dell'Insubria, Italy  
INFN - Laboratori Nazionali del Gran Sasso, Italy

1998 – 2003 Researcher (Tecnologo)  
Research Division, INFN - Laboratori Nazionali del Gran Sasso, Assergi  
(AQ), Italy

1995 – 1996 Scientific collaborator  
Technische Universität, München, Germany  
INFN - Laboratori Nazionali del Gran Sasso, Assergi (AQ), Italy

### FELLOWSHIPS AND AWARDS

1996 – 1998 INFN Postdoc Fellowship for foreigners, Research Division, INFN -  
Laboratori Nazionali del Gran Sasso, Assergi (AQ), Italy

1994 – 1995 EC Fellowship «Human Capital and Mobility», contract n.  
ERBCHBGCT920183, Research Division, INFN - Laboratori Nazionali del  
Gran Sasso, Assergi (AQ), Italy

### SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS





2002 – 2014 supervision of one Bachelor student, five Master Students  
Scuola di Specializzazione in Fisica Sanitaria, Università di Roma La  
Sapienza, Italy  
Faculty of Physics, Università degli Studi di L'Aquila, Italy  
Faculty of Physics, Milano "La Bicocca", Italy  
Faculty of Nuclear Engineering, Università degli Studi di Bologna, Italy  
Faculty of Physics, Università degli Studi di Torino, Italy

#### **TEACHING ACTIVITIES**

2014 – 2016 Teaching to PhD students (invited lecturer) – Topic: Radioactivity  
and rare phenomena, Gran Sasso Science Institute, L'Aquila, Italy  
2004 – 2007 Teaching position for PhD students – Topic: Radioactivity and rare  
events search, Università degli Studi di L'Aquila, Italy

2010-2014 tutor of three scholarships at the Laboratori Nazionali del Gran  
Sasso, Italy within three different European Programs of the Abruzzo  
Region, Assergi (AQ), Italy  
2010-2012 tutor of three undergraduate students within the Summer Internship  
Program of the US Air Force Academy, USA at the INFN - Laboratori  
Nazionali del Gran Sasso, Assergi (AQ), Italy  
2006-2011 tutor of four graduate students within the INFN-DOE Summer  
Student Exchange Program at the INFN - Laboratori Nazionali del Gran  
Sasso, Italy  
2006-2008 tutor of one undergraduate student with a INFN grant at the INFN -  
Laboratori Nazionali del Gran Sasso, Assergi (AQ), Italy

#### **ORGANISATION OF SCIENTIFIC MEETINGS**

2016 member of the Scientific Committee of the International Conference "Low  
Radioactivity Techniques 2017", Seoul, South Korea  
2016 member of the Scientific Committee of the 7th International Conference on  
Radionuclide Metrology - Low-Level- Radioactivity Measurement  
Techniques, Seattle, USA  
2015 member of the Scientific Committee of the International Conference "Low  
Radioactivity Techniques 2015", Sudbury, Canada  
2013 member of the Scientific Committee of the International Workshop,  
Radiopure Scintillators (RPSCINT 2013), Kiev, Ukraine  
2013 member of the Scientific Committee and the Local Organisation Committee  
of the International Conference "Low Radioactivity Techniques 2013",  
Assergi (AQ), Italy  
2012 member of the Scientific Committee of the 6th International Conference on  
Radionuclide Metrology - Low-Level- Radioactivity Measurement  
Techniques, Jeju, South Korea  
2008 member of the Scientific Committee of the 5th International Conference on  
Radionuclide Metrology - Low-Level- Radioactivity Measurement  
Techniques, PTB, Braunschweig, Germany  
2006 organizer of the 6th CELLAR Annual Meeting 2006, Assergi (AQ), Italy;

#### **INSTITUTIONAL RESPONSIBILITIES**



- 2000 – today Head of the Special Techniques, material screening and radioactivity measurements, Services of the INFN - Laboratori Nazionali del Gran Sasso, Assergi (AQ), Italy (annual budget ca. 60000 Euro)
- 2006 – 2015 general coordinator of the European CELLAR network
- 2014 member of the proposal committee for an application of an integrating activity to the UE within the HORIZON 2020 framework programme
- 2014 member of the proposal committee for an application of a training network to the UE within the HORIZON 2020 framework programme
- 2013 member of a Technical Commission for evaluating the adequacy of an economic offer concerning the tendering of the supply of ultrapure liquid nitrogen with low contents of argon and krypton for the Borexino experiment
- 2011 president of a Technical Commission for evaluating the adequacy of an economic offer concerning the tendering of the production of detector grade high purity germanium crystals of 17 kg of isotopically enriched material for the GerDA experiment
- 2010 – 2012 local responsible of the TELMA collaboration for detector development and ultra low background measurement techniques, Laboratori Nazionali del Gran Sasso, Italy (annual budget ca. 10000 Euro)
- 2009 member of a Technical Commission for evaluating the adequacy of an economic offer concerning the tendering of the supply of a high resolution mass spectrometer with plasma source for the INFN - Laboratori Nazionali del Gran Sasso
- 2009 member of the proposal committee for an application of an integrating activity to the UE within the 7th framework programme
- 2008 member of the proposal committee for an application of an integrating activity to the UE within the 7th framework programme
- 2007 administrative responsible for purchase of an ultra low background high purity well-type germanium detector
- 2006 – 2013 local responsible of the ERMES and ERMES-U collaboration for environmental radioactivity measurements, INFN - Laboratori Nazionali del Gran Sasso, Italy (annual budget ca. 20000 Euro)
- 2006 – 2009 Vice Project Leader at the European level of the project ILIAS
- 2006 member of a Technical Commission for evaluating the adequacy of an economic offer concerning the tendering of the removal of the gallium trichloride of GNO
- 2005 administrative responsible for purchase of an ultra low background high purity germanium detector and of an ultra-low background liquid scintillation counter
- 2005 (reconfirmed 2006) member of a Technical Commission for evaluating the adequacy of an economic offer concerning the tendering of the supply of 7300 high purity lead bricks for the external shielding of CUORE
- 2004 member of a Technical Commission for evaluating the adequacy of an economic offer concerning the tendering of the supply of ultrapure liquid nitrogen with low contents of argon and krypton for the Borexino experiment
- 1998-2003 Group Leader in Matters of Safety of the Borexino experiment at the INFN - Laboratori Nazionali del Gran Sasso



### COMMISSIONS OF TRUST

- 2016 Evaluator for the NSERC (Natural Sciences and Engineering Research Council of Canada)
- 2014 External Member of the advisory commission for PhD at the Università Tor Vergata, Rome, Italy
- 2013 Member of the Technical Review Committee on Targets, Detectors and Shielding for the project DIANA at the University of Notre Dame, USA
- 2012 – today Evaluator for the MIUR (Italian State Department for Education and Science), Italy
- 2010 Member of a Selection Panel for a permanent position as researcher at the Laboratorio Subterráneo de Canfranc, Spain
- 2010 – today, referee for the following international scientific journals:
- Nuclear Instruments and Methods in Physics Research A (IF: 1.316);
  - Nuclear Instruments and Methods in Physics Research B (IF: 1.186);
  - Journal of Environmental Radioactivity (IF: 3.571);
  - Journal of Radioanalytical and Nuclear Chemistry (IF: 1.415);
  - Physica Medica: European Journal of Medical Physics (IF: 1.849);
  - Applied Radiation and Isotopes (IF: 1.056);
  - Central European Journal of Physics (IF: 1.077)
  - New Biotechnology (IF: 2.756)
  - Astrophysics and Space Science (IF: 1.678)

### MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2006 – today Member of the ANPEQ (Italian National Association for Qualified Radiation Experts)
- 2006 – today Member and Coordinator, Research Network "CELLAR" (Collaboration of European low-level Underground Laboratories)
- 2004 – 2009 Member and Vice-coordinator, Research Network "ILIAS" (Integrated Infrastructure within the 6th Framework Program of the UE)

### MAJOR COLLABORATIONS

- 1993 – 2001 GALLEX collaboration, solar neutrino physics, Max-Planck-Institut für Kernphysik, Germany and INFN - Laboratori Nazionali del Gran Sasso, Assergi (AQ), Italy
- 2001 – 2005 GNO collaboration, solar neutrino physics, INFN - Laboratori Nazionali del Gran Sasso, Assergi (AQ), Italy
- 1993 – today Borexino collaboration, solar neutrino physics, INFN - Laboratori Nazionali del Gran Sasso, Assergi (AQ), Italy
- 2006 – today GerDA collaboration, neutrinoless double beta decay, INFN - Laboratori Nazionali del Gran Sasso, Assergi (AQ), Italy
- 2007 – today VIP collaboration, search for evidence of violation of the Pauli Exclusion Principle, INFN - Laboratori Nazionali del Gran Sasso, Assergi (AQ), Italy

A. Di Stefano, 15/3/2007