



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

9th ICATPP Conference on  
**Astroparticle, Particle, Space Physics, Detectors and Medical Physics Applications**  
Villa Olmo, 17-21 October, 2005

Organizing Committee:

E.Borchi, INFN and University of Florence  
C.Leroy, University of Montreal  
L.Price, ANL  
P.G.Rancoita, INFN-Milano (Conference Chairman)  
R.Ruchti, University of Notre Dame

Industry Organizing Committee

to follow relationships with attending Companies and their representatives, issues on technology transfer among Research Institutions and Companies and the Exhibition at the Conference:

M.Barone, Demokritos Athens  
A.Gaddi, CERN

Sessions Organizers and International Advisory Committee:

D.Abbaneo, CERN  
S.Baccaro, ENEA-Rome  
P.Binko, Observatoire de Genere and SynSpace SA  
A.Breskin, Weizmann Institute  
A.Capone, INFN and University "La Sapienza", Rome  
C.Fabjan, CERN  
K.Freudenreich, ETH-Zurich  
S. Giani, CERN  
V.Hagopian, Florida State University  
E.Longo, INFN and University "La Sapienza", Rome  
E.Nappi, INFN-Bari  
S.Pospisil, CTU Prague  
P.L.Riboni, ETHZ-Zurich  
T.J.Ruth, TRIUMF  
D. Saltzberg, UCLA  
J. Seguinot, College de France, Paris  
V. Sossi, University of British Columbia, Vancouver  
S.Volontè, HQ ESA  
C. Waltham, University of British Columbia, Vancouver



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## ICATPP Conferences

Conference Overview : <http://villaolmo.mib.infn.it/Conference2005.html>

Monday	Tuesday	Wednesday	Thursday	Friday
9.30: registration	8.30 Astropart & Underg. Exp (plenary)	8.30 HEP experiments (plenary)	8.30 GEANT4 Symposium (plenary)	8.30 Radioth.& Med .Imag (plenary)
	10.30	10.30	10.30	10.30
10.50: Opening	10.30-11.00 Coffee break			
Space Experiments (plenary)	11.00 Ad. Det. and Part Ident. (plenary)	11.00 Astropart & Underg. Exp (plenary)	11.00 GEANT4 Symposium (plenary)	11.00 Radioth.& Med .Imag (plenary)
	13.00	13.00	13.00	
13.00-14.30 Lunch				12.40: Final Remarks
14.30 Space Exper. I Tracker I HEP Experiments Calorimetry	14.30 (I) Space Exper. II (II) Tracker II (III) Ad. Det.&Part .Id. I (IV) Astr.& Underg.Exp(VIII) Calorimetry (IV-b)	14.30 (V) Medical App. Instr. (VI) Tracker III (VII) Miniat Part. Detect. (XII) Rad. Damage I Space Exp. III (V-b)	14.30 (IX) GEANT4&SW App (XIII) (X) Ad. Det.&Part .Id. II(XIV) (XI) Rad. Damage II (XV) (XVI) Radioth.&Med.Imag(XVI) Astr.&Undgr.Exp. (VIII-c)	
Poster session 16.00	Poster session 16.00	Poster session 16.00	Poster session 16.00	
16.00-16.30 Coffee break				
16.30 Space Exper. I Tracker I HEP Experiments Calorimetry	16.30 (I) Space Exper. II (II) Tracker II (III) Ad. Det. &Part .Id. (VII) Astr.& Underg.Exp(VIII) Calorimetry (IV-b)	16.30 (V) Medical App. Instr. (VI) Tracker III (XI) Miniat Part. Detect. (XII) Rad. Damage I Astr.&Undgr.Exp(VIII-b)	16.30 (IX) GEANT4&SW App (XIII) (X) Ad. Det.&Part .Id. II(XIV) (XV) Rad. Damage II (XV) (XVI) Radioth.&Med.Imag(XVI) Astr.&Undgr.Exp. (VIII-c)	
Poster session 18.00	Poster session 18.00	Poster session 18.00	Poster session 18.00	
18.00 Accelerator & Comp. Data/Netw. Develop.	18.00 Accelerator & Comp. Data/Netw. Develop.	18.00	18.00 Accelerator & Comp. Data/Netw. Develop.	
	18.40	18.40	18.40	
18.40 Adjourn				
20.00: supper with relevant guest of opening session	20.00: meeting for organizers and advisory c. members	20.00: BANQUET	19.00: meeting for organizing committee members	

Note : Posters can be exhibited at any time from Monday up to Thursday.



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## ICATPP Conferences

### Plenary Session Organizers:

- A.Capone, INFN and University of Rome1 and D.Saltzberg, UCLA: Astroparticle and Underground Experiments  
S.Giani, CERN Geneva: Symposium on GEANT4 Applications  
E.Nappi, INFN-Bari and J.Seguino, College de France, Paris: Advanced Detectors and Particle Identification  
L.Price, ANL: High Energy Physics Experiments  
R.Ruchti, University of Notre Dame/US National Science Foundation: Accelerator and Computer Data/Networking Developments  
V.Sossi, University of British Columbia, Vancouver: Radiotherapy and Medical Imaging  
S.Volontè, ESA Paris: Space Experiments

### Parallel Session Organizers:

- D.Abbaneo, CERN Geneva: Tracker and Silicon Tracker (Tracker I , II , III sessions)  
S.Baccaro, ENEA (Rome): Radiation Damage  
P.Binko, Observatoire de Geneve & SynSpace SA and S.Giani, CERN Geneva: Software Applications  
A.Capone, INFN and University of Rome1 and D.Saltzberg, UCLA: Astroparticle and Underground Experiments  
C.Fabjan, CERN Geneva: Miniaturization of Particle Detectors  
S.Giani, CERN Geneva: Symposium on GEANT4 Applications  
V.Hagopian, Florida State University: Poster Session  
C.Leroy, University of Montreal: Calorimetry  
E.Nappi, INFN-Bari and J.Seguino, College de France, Paris: Advanced Detectors and Particle Identification  
S.Pospisil, IEAP CTU Prague: Medical Application Instrumentation  
L.Price, ANL: High Energy Physics Experiments  
V.Sossi, University of British Columbia, Vancouver: Radiotherapy and Medical Imaging  
S.Volontè, ESA Paris: Space Experiments

### Organizers of Industry Participation and Exhibition

- M.Barone, Demokritos Athens  
A.Gaddi, CERN  
P.L.Riboni, ETHZ-Zurich

### The Article Committee

has been set to follow the article submission, review and publication in the Conference Proceedings:

- E.Borchi, INFN and University of Florence  
C.Leroy, University of Montreal  
P.G.Rancoita, INFN-Milano



## ICATPP Conferences

M O N D A Y 17			
9.30 REGISTRATION			
10.50: Opening  Space Experiments Ses.Org.:S.Volontè Chairm.: S.Volontè  Room: Salone			
13.00-14.30 Lunch			
14.30  (I) Space Experiments I Ses.Org.:S.Volontè Chairm.: S.Volontè  Room: Salone	14.30  (II) Tracker I Ses.Org.: D.Abbaneo Chairm.: D.Abbaneo  Room: Sala Ovale	14.00  (III) High Energy Phys. Ses.Org.: L.Price Chairm.: L.Price  Room: Sala Bacco	14.00  (IV) Calorimetry Ses.Org.:C.Leroy Chairm.:C.Leroy  Room: Sala Musica
16.00-16.30 Coffee break			
16.30  (I) Space Experiments I Ses.Org.:S.Volontè Chairm.: S.Volontè  Room: Salone	16.30  (II) Tracker I Ses.Org.: D.Abbaneo Chairm.: D.Abbaneo  Room: Sala Ovale	16.30  (III) High Energy Phys. Ses.Org.: L.Price Chairm.: L.Price  Room: Sala Bacco	16.30  (IV) Calorimetry Ses.Org.:C.Leroy Chairm.:C.Leroy  Room: Sala Musica
18.00  Accelerator and Computer Data/Networking Dev. Ses.Org.:R.Ruchti Chairm.:R.Ruchti Room: Salone	18.00		
18.40  18.40 Adjourn			



## ICATPP Conferences

# Conference Programme

Monday 17

9.30 : REGISTRATION

**plenary session: 10.50 - 13.00**

Opening session: (Chairman: S.Volontè, HQ ESA)

**room: Salone**

10.50 : P.G. Rancoita (INFN-Milano): Conference opening

plenary session on Space Experiments (Chairman: S.Volontè, HQ ESA)

session organizer: S.Volontè, HQ ESA

B. Schutz (AEI Golm-Potsdam): Fundamental Physics in ESA's Cosmic Vision Plan.

W.Schleich (Uni Ulm): Space as a testing ground for the foundations of Physics.

P.Binetruy (APC Paris): The Early Universe and Dark Energy.

F. Everitt (Uni Stanford): Status of the Gravity Probe B mission.



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## ICATPP Conferences

Monday 17

parallel sessions: 14.30 - 18.00

parallel session I on Space Experiments I (Chairman: S.Volontè, HQ ESA)

session organizer: S.Volontè, HQ ESA

**room: Salone**

X. Barcons (UC Santander): The Extreme Universe.

J.M. Poulsen (Laben Milano): AGILE: the Integrated Payload.

L. Foggetta (CIFS Como): The AGILE Silicon Tracker: Construction and Calibration Results.

F. Loparco (INFN Bari): Performance of the integrated Tracker Towers of the GLAST Large Area Telescope (LAT).

16.00 - 16.30 coffee break

D. Hudson (ONERA Châtillon): The MICROSCOPE Mission and Pre-flight Performance Verification.

S. Buchman (Uni Stanford): The Gyroscopes for the Relativity Mission, Gravity Probe B.

E. M. Rasel (Uni Hanover): Atom Optics in Micro-Gravity.

M. Hareyma (WU Tokyo): The Origin of He-3 Isotope Enhancement in the Magnetosphere Observed by TSUBASA Satellite.

parallel session II on Tracker I (Chairman: D.Abbaneo, CERN)

session organizer: D. Abbaneo, CERN

**room: Ovale**

M. Lenzi (INFN, Firenze): The LHCb Muon System .

F. Bellini (Università La Sapienza and INFN - Roma): Experience with Resistive Plate Chambers at BaBar.

M. Andreotti (Università and INFN, Ferrara): A Barrel IFR Instrumented with Limited Streamer Tubes.

N. Benekos (MPI, Munich): Muon Identification and Reconstruction in the ATLAS Detector at LHC - Impact of the Initial Layout.

16.00 - 16.30 coffee break

J. Pater (University of Manchester): Final Assembly and Integration of the ATLAS Semiconductor



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## ICATPP Conferences

Tracker and Transition Radiation Tracker.

G. Gagliardi (INFN, Genova): Operation of the ATLAS Tacker in the Combined Test Beam.

M. Sutton (University College, London): Tracking strategy and performance for the ATLAS High Level Triggers.

*parallel session III on High Energy Physics (Chairman: L. Price, Argonne National Laboratory)*

*session organizer: L. Price, Argonne National Laboratory*

**room: Bacco**

J. Smyrski (Jagellonian University): PANDA: A Detector for Research with Antiprotons.

R. Lu (Inst. of Physics, Academia Sinica): Status and Performance of the CDF Run II Silicon Detector.

M. Barone (Institute of Nuclear Physics –NCSR Demokritos): Technical Aspects of the Manufacture of 4 Grease Pad Assemblies for the CMS Experiment.

J. Puerta-Pelayo (CERN): Certification, Installation and Commissioning of Muon DT Chambers for CMS.

R. Salerno (INFN Milano): Test Beam Results of the CMS Electromagnetic Calorimeter.

**16.00 - 16.30 coffee break**

A. Ventura (INFN Lecce): Muon Reconstruction and Identification for the Event Filter of the ATLAS Experiment.

M. Pilar Casado (IFAE Barcelona): Implementation and Performance of a tau Lepton Selection within the ATLAS Trigger System at the LHC.

S. Veneziano (INFN Roma 1): The ATLAS Barrel Level-1 Muon Trigger Processor Performance.

A. Di Simone (CERN): ATLAS Detector Simulation: Status and Outlook.

M. Angarano (CAEN s.p.a.): New line of CAEN Flash ADC.

*parallel session IV on Calorimetry (Chairman: C.Leroy, University of Montreal)*

*session organizer: C.Leroy, University of Montreal*

**room: Sala Musica**

R. Orr (Univ. of Toronto): Installation & Integration of ATLAS LAr Calorimeter System

D. Bryman (Univ. of British Columbia): The KOPIO Preradiator; A high Efficiency Pointing Calorimeter for Medium Energy Photons

P. Bloch (CERN): The CMS Electromagnetic Calorimeter



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## ICATPP Conferences

16.00 - 16.30 coffee break

- E. Tarkovsky (ITEP): Study of Scintillator Strip with Wavelength Shifting Fiber and Silicon Photomultiplier
- K. Voss (Univ. of Victoria): Inter-calibration and Off-line Compensation Studies of the ATLAS Calorimeter using Beam Tests and Monte Carlo
- C. Oliver (Univ. of Madrid): Uniformity of Response of the ATLAS EM Calorimeter Series Modules
- V. Hagopian (Florida State Univ.): The Large Hadron Collider Compact Muon Solenoid (CMS) Hadron Calorimeter

At 18.00 up to 18.40

Open Session on Accelerator and Data/Networking Developments (Chairman: R.Ruchti, University of Notre Dame)

session organizer: R.Ruchti, University of Notre Dame

**room: Salone**

R. Schmidt (CERN): The LHC Collider: Status and Outlook to Operation



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## ICATPP Conferences

POSTER SESSION from Monday up to Thursday (Chairman: V.Hagopian; Florida State Univ.)  
session organizer: V.Hagopian, Florida State Univ.

**Posters are displayed from Monday up to Friday at noon. On Monday 17, authors will be present to illustrate their papers.**

### **Astroparticle, Underground Experiments, Space Physics and Cosmic Rays**

- G. Ambrosi (INFN Sez Perugia): The SERMS Facility for Qualification of Space Experiments.  
M. Brigida (INFN Bari): First Results from GLAST-LAT integrated Towers Cosmic Ray Data Taking and Monte Carlo Comparison.  
B. S. Chauhan (A.P.S. Univ, Rewa): The Study of Large Geomagnetic Storms in Observed During of Period 1986-2002.  
D. Fargion (Univ Rome, INFN Rome): Tau and Muon Prompt Solar Flare Neutrinos in UNO and HyperKamiokande Detectors.  
D. Fargion (Univ Rome, INFN Rome): Crown Arrays Discovering Upgoing Neutrino Induced AirShowers.  
M. Gervasi (INFN Milano): Ion abundance Close to Earth Surface: The Role of Magnetosphere.  
M. Hareyama (Waseda Univ): Isotope Composition of Ultra Heavy Cosmic Rays.  
S. Hasan (Univ Insubria, Como): A Photon Tag Calibration Beam for the AGILE Satellite.  
N. Hasebe (Waseda Univ): Spatial Distribution of Energetic Heavy Ions Near the Earth.  
R. Mangoni (INFN Milano): Investigation of VLSI Bipolar Transistors Irradiated with e, Ions and n for Space Applications.  
S. K. Mishra (A.P.S. Univ, Rewa): Study of Magnetic cloud and Associated Major Geomagnetic Storm.  
S. Raino (INFN Bari): Environmental Tests on the Flight Modules of the GLAST LAT Tracker.  
I. Solskii (SRS Carat, Lviv): Underground Plant to Produce Ultra-Radiopure Crystals for Low Counting Experiments.  
M. Uslenghi (INAF-IASF, Milano): CZT Detectors Development for the New Generation Hard-X/gamma-ray Astronomy Instruments.

### **High-Energy Physics Experiments, Trackers, Calorimetry, Software and Data Systems**

- M. Bianco (Univ Lecce): The ATLAS RPC Test Stands.  
S. Bimbot (Ecole Polytechnique): Study of Trigger-Primitives of the CMS Electromagnetic Calorimeter.  
C. Bloch (CERN): Commissioning of CMS Tracker.  
M. Boschini (CILEA, Codogno): AMS02 Italian Data Transfer System: Real Life Experience.  
M. Frey (Univ Karlsruhe): The CMS-Tracker Detector Controls System (DCS).



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- F. Gargano (INFN Bari): A Full Monte Carlo Simulation of Silicon Strip Detectors.
- V. Grichine (CERN/Lebedev): Electromagnetic Physics Modeling in GEANT4 Package.
- E. Gulmez (Bogazici Univ, Istanbul): Using PMT Relative Gains in the Calibration of the CMS-HF. Calorimeter
- S. Hagopian (Florida State Univ): Jet Energy Scale Determination for the Run 2 D0 Calorimeter.
- L. Isaksen (CERN): What is Needed to Cool a LHC Experiment, e.g. CMS?
- J. Kaminski (Univ Karlsruhe): Optimization of the Readout Pad Geometry for a GEM-based Time Projection Chamber.
- A. Krokhotin (ITEP): Source Calibration of CMS Quartz Fiber Forward Calorimeter.
- I. Lazanu (Univ Bucharest): Analysis of the Expected Degradation of Silicon Detectors in the Future ultra HEP Facilities.
- A. Lungescu (Inst Space Sciences, Bucharest): Resonance Production and Exotic Clusters in Au+Au Collisions at  $\sqrt{s} = 200$  GeV.
- M. M. Obertino (INFN Torino): The Very Front End Cards for the CMS ECAL: Description, Calibration and Performance.
- I. Papadopoulos (CERN): CORAL, A Software System for Vendor-Neutral Access to Relational Databases.
- R. Petti (CERN): Atlas Inner detector results from the 2004 combined test beam data.
- D. Rebutti (Pavia Univ): Geant4 Simulation of the ATLAS Muon Spectrometer.
- T. Ruf (CERN): LHCb Tracking Issues.
- M. Schram (Carlton Univ): Electron and Pion Results from the ATLAS Forward Calorimeter 2003 Test beam.
- C. Serfon (CPPM): Linearity, Energy and Position Resolution of the ATLAS EM Calorimeter Series Modules.
- A. Srivastava (Delhi Univ): Analysis of Inter-Strip Capacitance of Different Designs of Double Sided Silicon detectors.
- A. Topkar (Bhabha Atomic Research): Preshower Silicon Strip Detectors for the CMS Experiment at LHC.
- J. Ulbricht (ETH Hoenggerberg): Test of QED with the Reaction  $e+e- \rightarrow \gamma\gamma$  ( $\gamma$ )

### Advanced detectors and medical physics applications

- S. Bellucci (INFN Frascati): Bending of a 480MeV  $e+$  Beam by a Deformed Crystal.
- S. Bianco (INFN Frascati): High-resolution, 3D x-Ray Tomography for Straw Tube Detectors in HEP.
- J. Dickens (Cambridge Univ): Hybrid-Photon Detectors in the LHCb RICH Detectors.
- P. G. Fuochi (ISOF-CNR Bologna): Beam Energy Monitor for 4-10MeV Electron Accelerators.
- A. Gallas (CERN): Gaseous Detector for Charged Hadron Identification in Heavy Ion Experiments.
- M. L. Magliozzi (ISS INFN Rome): High Resolution, High Sensitivity Detectors for Molecular Imaging of Small Animals and Tumor Detection.
- Z. Mirela-Camelia (Inst Space Science, Bucharest): Radiotherapy of Cancer Using Heavy Ions Beams.
- P. Musico (INFN Genoa): MARS: Multi Anode Readout System Mxed Signal ASIC Designed for Single Photon Counting.



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- D. Neyret (CEA Saclay): Fast Read-out of the COMPASS RICH CsI-MWPC Chambers Using APV25 Amplifier and Analog Sampling Chips.
- M. Ieva (Università and INFN Bari): A New Automatic Microscope for High Speed Analysis of Nuclear Emulsions.
- R. Ruchti (Univ Notre Dame, NSF): Fast, Long-wavelength Scintillators and Waveshifters.
- G. Sani (Univ Pavia): Multi Gap RPC Detectors for PET Analysis.
- R. Scafe (ENEA MAT Rome): Spatial Linearity Improvement for Discrete Scintillation Imagers.
- M. Chefdeville and H. van der Graaf (NIKEF): GOSSIP: a Vertex Detector combining a thin Gas Layer as Signal Generator with a CMOS Readout Pixel Array.
- D. Vavrik (UTEF CVUT Prague): Radiographic Study of Soft Tissues using Single Photon Counting Pixel Device.



## ICATPP Conferences

### TUESDAY 18

8.30 Astroparticle&Underg. Experi Ses.Org.:Capone, Saltzberg Chairm.: D.Saltzberg Room: Salone				
10.30-11.00 Coffee break				
11.00 Advanced Detectors and Particle Identification Ses.Org.:E.Nappi,J.Seguino Chairm.: J.Seguino Room: Salone				
13.00-14.30 Lunch				
14.30 (V) Space Experiments II Ses.Org.:S.Volontè Chairm.: S.Volontè Room: Salone	14.00 (VI) Tracker II Ses.Org.: D.Abbaneo Chairm.: D.Abbaneo Room: Sala Ovale	14.30 (VII) Advanced Detectors and Particle Identification Ses.Org.:E.Nappi,J.Seguino Chairm.: E.Nappi Room: Sala Bacco	14.30 (VIII) Astroparticle &Underg. Exper. Ses.Org.:Capone, Saltzberg Chairm.: A.Capone Room: Sala Musica	14.30 (IV-b) Calorimetry II Ses.Org.:C.Leroy Chairm.:C.Leroy Room: Sala Duca
16.00-16.30 Coffee break				
16.30 (V) Space Experiments II Ses.Org.:S.Volontè Chairm.: S.Volontè Room: Salone	16.30 (VI) Tracker II Ses.Org.: D.Abbaneo Chairm.: D.Abbaneo Room: Sala Ovale	16.30 (VII) Advanced Detectors and Particle Identification Ses.Org.:E.Nappi,J.Seguino Chairm.: E.Nappi Room: Sala Bacco	16.30 (VIII) Astroparticle &Underg. Exper. Ses.Org.:Capone, Saltzberg Chairm.: A.Capone Room: Sala Musica	16.30 (IV-b) Calorimetry II Ses.Org.:C.Leroy Chairm.:C.Leroy Room: Sala Duca
18.00	18.00	18.00	18.00	18.00
18.00 Accelerator and Computer Data/Networking Dev. Ses.Org.:R.Ruchti Chairm.:R.Ruchti Room: Salone				
18.40				
18.40 Adjourm				



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## ICATPP Conferences

Tuesday 18

**plenary sessions: 8.30 - 13.00**

8.30-10.30 plenary session on Astroparticle & Underground. Experiments (Chairman: D.Saltzberg, UCLA)  
session organizer: A.Capone (Univ. La Sapienza, Rome) D.Saltzberg (UCLA)

**room: Salone**

- M. Pedretti (INFN and Universita' dell'Insubria, Milano, Italy): Searching for the Neutrinoless Double Beta Decay in Cuoricino and Cuore Experiments.
- R. Cerulli (INFN Gran Sasso, Italy): Recent results from DAMA Experiment.
- C. Leroy (University of Montreal, Canada): Improved Spin Dependent Limits from the PICASSO Dark Matter Search Experiment.
- S. N. Ahmed (Sudbury Neutrino Observatory, Canada): The Art of Detecting Neutrinos, 2 km Underground - The Three Phases of the Sudbury Neutrino Observatory.

**10.30 - 11.00 coffee break**

11.00-13.00 plenary session on Advanced Detectors and Particle Identification (Chairman: J. Seguinot, College de France)  
session organizer: E. Nappi, INFN-Bari and J. Seguinot, College de France

**room: Salone**

- M. Titov (Freiburg University / ITEP Moscow): Recent advances and future perspectives of gaseous detectors
- H. Kagan (Ohio State University): Recent advances in diamond detectors for particle tracking
- J. Baechler (CERN, Geneva): The ALICE TPC



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## ICATPP Conferences

Tuesday 18

parallel sessions: 14.30 - 18.00

parallel session V on Space Experiments II (Chairman: S.Volontè, HQ ESA)

session organizer: S.Volontè, HQ ESA

**room: Salone**

- R. Sparvoli (Uni Roma): Launch in Orbit of the Space Experiment PAMELA and Ground Data Results.  
V. Malvezzi (Uni Roma): Performance of the Neutron Detector and Bottom Scintillator of the Space Instrument PAMELA.  
S. Russo (Uni Napoli): The Time of Flight Detector and Trigger of the PAMELA Experiment in Space.  
A. Basili (INFN Roma): The Data Acquisition System of the PAMELA Experiment.

16.00 - 16.30 coffee break

- G. Ambrosi (INFN Perugia): The Alpha Magnetic Spectrometer (AMS) on the International Space Station.  
C. E. Lin (NCKU Tainan): Measurement and Identification of Magnetic Field Distribution for the Alpha Magnetic Spectrometer (AMS) Project.  
A. Lebedev (CERN Geneve): the AMS-02 Electronics System.  
P. Bobik (IEP Kosice): Primary Helium CR Inside the Magnetosphere: a Transmission Function Study.

parallel session VI on Tracker II (Chairman: D.Abbaneo, CERN)

session organizer: D. Abbaneo, CERN

**room: Ovale**

- P. Azzarello (INFN, Perugia): Assembly and tests of the AMS-02 Silicon Tracker.  
W. Wallraff (RWTH-IB, Aachen): 3-dimensional Position Control for the AMS-02 with Infrared Laser Beams.  
M. Bomben (Università and INFN Trieste): New Effects observed in the BaBar Silicon Vertex Tracker: Interpretation and Estimate of their impact on the future performance of the detector.  
L. Bagby (Fermilab): A New Inner Layer Silicon Strip Detector for D0.

16.00 - 16.30 coffee break

- M. Eppard (CERN): The CMS Tracker.  
R. Brauer (RWTH-IB, Aachen): Tests of sub structures of the CMS Silicon Tracker.  
F. Lehner (University of Zürich): The LHCb Silicon Tracker.



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parallel session VII on Advanced Detectors and Particle Identification (Chairman: E. Nappi, INFN-Bari)

session organizer: E. Nappi, INFN-Bari and J. Seguinot, College de France

**room: Bacco**

M. Apollonio (INFN-Trieste): Studies for a Fast RICH

B. Borgia (Rome "La Sapienza" University): Construction and Performance of the AMS-02 Transition Radiation Detector for the International Space Station

T. Christ (Technical University of Munich): Particle Identification in the HADES-Experiment

E. Cisbani (ISS – Rome): RICH Detector at Jefferson Lab: Design, Performance and Physics Results

16.00 - 16.30 coffee break

C. Garabatos (GSI, Darmstadt): Development of a Fast Transition Radiation and Tracking Detector for CBM at FAIR

M. Patel (CERN, Geneva): Analysis of Test-Beam Data from a Prototype LHCb RICH Detector

M. Regler (Institute of High Energy Physics, Vienna): Particle Identification by  $dE/dx$  in a Stack of Silicon Chambers.

A. Gorisek (CERN): The Design and Test of the ATLAS Diamond Beam Conditions Monitor.

parallel session VIII on Astroparticle & Underground. Experiments (Chairman: A.Capone, Univ. La Sapienza, Rome)

session organizer: A.Capone (Univ. La Sapienza, Italy) D.Saltzberg (UCLA)

**room: Musica**

K. Hanson (University of Wisconsin, USA): Design, Production, and First Results from the IceCube Digital Optical Module.

M. Ruppi (INFN Bari, Italy): Time calibration of the NEutrino Mediterranean Observatory.

L. Salvatore Esposito (INFN Bologna, Italy): Electromagnetic Shower Reconstruction in Emulsion Cloud Chamber.

S. Dusini (INFN Padova, Italy): The RPC system for the OPERA Spectrometer.

A. Bercuci (N.I.P.N.E.H.H., Bucharest Romania): Studies of the Influence of the Geomagnetic Field on Charged Particles by Measurements of Atmospheric Muons.

16.00 - 16.30 coffee break

M. Israel (Washington University, USA): Scintillating Optical Fibers for Astroparticle Physics.



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## ICATPP Conferences

- M. Chertok (University of California, Davis, USA): CACTUS, A 2<sup>nd</sup> Generation Time Imaging Air Cherenkov Telescope.
- F. Lucarelli (University "La Sapienza", Roma): The central pixel of the MAGIC telescope for optical observations.
- L. Gambicorti (University of Florence, Italy): Imaging optical adapters for Multi-Anode Photomultiplier Detectors.

parallel session IV-b on Calorimetry (Chairman: C.Leroy, University of Montreal)

session organizer: C.Leroy, University of Montreal

**room: Sala Duca**

- J. Pinfold (Univ. of Alberta): Plan for the Very Forward Region of ATLAS
- M. Groll (Univ. of Hamburg): Dedicated Front-End Electronics for an ILC Prototype Hadronic Calorimeter with SiPM Readout
- M. Ippolitov (Kurchatov Institute): Properties of a 256-channel Prototype of the ALICE/PHOS Calorimeter
- A. Bornheim (CALTECH): The CMS ECAL Laser Monitoring System

**16.00 - 16.30 coffee break**

- A. Ulyanov (ITEP): Test Beam Results of the CMS Forward Quartz Fibre Calorimeter
- R. Salerno (Univ. Milano-Bicocca, INFN Milano): Test Beam Results of the CMS Electromagnetic Calorimeter
- P. Meridiani (INFN Roma1): The CMS Electromagnetic Calorimeter Calibration Strategy
- I. Evangelou (Univ. of Ioannina): CMS Preshower in-situ Calibration

**At 18.00 up to 18.40**

Open Session on Accelerator and Data/Networking Developments (Chairman: R.Ruchti, University of Notre Dame)

session organizer: R.Ruchti, University of Notre Dame

**room: Salone**

- R. Gardner (Fermi Institute, University of Chicago): GRID Computing



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

### WEDNESDAY 19

8.30 HEP Experiments Ses.Org.:L.Price Chairm.:L.Price Room: Salone				
10.30-11.00 Coffee break				
11.00 Astroparticle&Underg. Experi Ses.Org.:Capone, Saltzberg Chairm.:D.Saltzberg Room: Salone				
13.00-14.30 Lunch				
14.30 (IX) Medical App. Instr. Ses.Org.:S.Pospisil Chairm.: S.Pospisil Room: Salone	14.30 (X) Tracker III Ses.Org.: D.Abbaneo Chairm.: D.Abbaneo Room: Sala Ovale	14.30 (XI) Miniat. of Part. Detect. Ses.Org.: C.Fabjan Chairm.: C.Fabjan Room: Sala Bacco	14.30 (XII) Radiation Damage Ses.Org.:S.Baccaro Chairm.: S.Baccaro Room: Sala Musica	14.30 (V-b) Space Experiments III Ses.Org.:S.Volontè Chairm.: S.Volontè Room: Sala Duca
16.00-16.30 Coffee break				
16.30 (IX) Medical App. Instr. Ses.Org.:S.Pospisil Chairm.: S.Pospisil Room: Salone	16.30 (X) Tracker III Ses.Org.: D.Abbaneo Chairm.: D.Abbaneo Room: Sala Ovale	16.30 (XI) Miniat. of Part. Detect. Ses.Org.: C.Fabjan Chairm.: C.Fabjan Room: Sala Bacco	16.30 (XII) Radiation Damage Ses.Org.:S.Baccaro Chairm.: S.Baccaro Room: Sala Musica	16.30 (VIII-b) Astroparticle &Underg. Exper. Ses.Org.:Capone, Saltzberg Chairm.: A.Capone Room: Sala Duca
18.00	18.00	18.00	18.00	18.00
18.40 Adjourn				



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

Wednesday 19

**plenary sessions: 8.30 - 13.00**

8.30-10.30 plenary session on High Energy Physics (Chairman: L. Price, Argonne National Laboratory)

session organizer: L. Price, Argonne National Laboratory

**room: Salone**

P. Paolucci (INFN Napoli): The CMS Muon System.

A. Di Ciaccio (University of Roma Tor Vergata): The ATLAS Experiment at CERN: Two Years Before the Start of Data-taking.

M. Krammer (Institute for High Energy Physics of the Austrian Academy for Sciences): Silicon Sensors for the Inner Tracker of CMS.

K. Lang (University of Texas at Austin): Running MINOS.

**10.30 - 11.00 coffee break**

8.30-10.30 plenary session on Astroparticle & Underground. Experiments (Chairman: D.Saltzberg, UCLA)

session organizer: Antonio Capone (Univ. La Sapienza Rome) David Saltzberg (UCLA)

**room: Salone**

A. Haungs (Institut für Kernphysik, Karlsruhe, Germany): High-Energy Cosmic Rays Investigated by Air-Shower Measurements with KASCADE, KASCADE-Grande, and LOPES.

E. Migneco (LNS-INFN, Italy): The NEMO project for a Neutrino Telescope in Mediterranean Sea.

L. Villasenor (University of Michoacan, Mexico): The Pierre Auger Observatory.

P. Gorham (University of Hawaii, USA): Radio Detection of EeV Cosmic Neutrinos in Ice and Salt.



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

Wednesday 19

parallel sessions: 14.30 - 18.00

parallel session IX on Medical Application Instrumentation (Chairman: S.Pospisil, CTU Prague)

session organizer: S.Pospisil, CTU Prague

**room: Salone**

- C. Davia (Brunel University, Italy): 3D Edgeless Silicon Detectors: Results and Applications.  
F. Marchetto (INFN Torino, Italy): Strip Ionizing Chamber as Beam Monitor in the Protontherapy eye Treatment.  
S. Manolopoulos (CCLRC – RAL, UK): Technology Transfer of Microstrip Detectors; from Particle Physics to Medical and Synchrotron Applications.  
G. Pitta (Fondazione TERA, Novara, Italy): An Innovative Pixel Ionization Chamber for on-line Beam Monitoring in Hadrontherapy.

16.00 - 16.30 coffee break

- M.G. Bisogni (Pisa University, Italy): The Mammographic Head Prototype Developed in the Framework of the "IMI" Project: First Imaging Tests Results.  
Z. Vykydal (CTU in Prague, Czech Republic): A Portable Pixel Detector Operating as an Active Nuclear Emulsion and its Application for X-ray and Neutron Tomography.  
L. Tlustos (CERN, Switzerland): Charge Sharing in Pixel Detectors for Spectroscopic Imaging.  
J. Fink (Bonn University): TCT characterization of Semiconductor Materials for Particle Detection.

parallel session X on Tracker III (Chairman: D.Abbaneo, CERN)

session organizer: D. Abbaneo, CERN

**room: Ovale**

- I.A. Cali (Università and INFN Bari, and CERN): Test, Qualification and Electronics Integration of the ALICE Silicon Pixel Detector Modules.  
G. Batigne (INFN Torino): Calibration System for the Silicon Drift Detector of the ALICE Experiment.  
G. Leibenguth (ETH - Zürich): The H1 Silicon Tracker.  
G. Nieuwenhuizen (MIT): STAR Inner and Forward Tracking Upgrade.

16.00 - 16.30 coffee break

- M. Weber (RWTH-III, Aachen): Development of a GEM-based High Resolution TPC for the



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

International Linear Collider.

H.-G. Moser (MPI - München): The DEPFET Active Pixel Sensor as Vertex Detector for the ILC.

O. Militaru (UC, Louvain-la-Neuve): Cryogenic operation of edge-sensitive detectors.

L. Benussi (LNF-INFN): Micrometric Position Monitoring using Fiber Bragg Grating Sensors in Silicon Tracking Detectors.

parallel session XI on Miniaturization of Particle Detectors (Chairman: : C. Fabjan, CERN)

session organizer: C. Fabjan, CERN

**room: Bacco**

P. Sharp (CERN): Microelectronics and Microstructures for Future Instrumentation .

E. Heijne (CERN): Miniaturization in Semiconductor Particle Detectors.

P. Lecoq (CERN) : Impact of Miniaturization in Medical Imaging.

16.00 - 16.30 coffee break

S. Andriamonje (CEA-Saclay): A Novel Micromegas Detector for In-Core Nuclear Reactor Neutron Flux Measurements .

M. Chefdeville (NIKHEF-Amsterdam): A New Readout of Gas-filled Detectors: Results from a Micromegas-covered MediPix2 Pixel CMOS Readout Circuit in a mini-TPC.

L. Montani (Casaccia Research, ENEA, Rome): A Subminiature Scintillation Detector for Catheder Operation.

R.H. O'Neal Jr. (Florida A&M University): Performance Study of a Biology based Particle Detector.

parallel session XII on Radiation Damage (Chairman: Stefania Baccaro, ENEA, Italy)

session organizer: Stefania Baccaro, ENEA, Italy

**room: Musica**

R. Rando (University and INFN Pisa, Italy): Radiation Testing of GLAST LAT Tracker ASICs

S. Assouak (Université Catholique de Louvain, Belgium): Statistical Study of the Radiation Hardness of CMS Silicon Microstrip Detectors

A. Messineo (University and INFN, Pisa, Italy): Development of Radiation Hard Silicon Detectors: the SMART Project

16.00 - 16.30 coffee break



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

- E. Scapparone (University and INFN Bologna, Italy): Radiation and Magnetic Field Test of Commercial Programmable Delay Line
- P.D. Jackson (Ohio State University, Columbus, USA): Radiation-hard Optical link for ATLAS Pixel Detector
- A. Sopczak (Lancaster University, Lancaster, UK): Charge Transfer Inefficiency Studies for CCD Vertex Detectors
- M.E. Dinardo (University and INFN, Milano, Italy): Full Characterization of non-uniformity Irradiated Silicon Microstrip Sensors

parallel session V-b on Space Experiments II (Chairman: S.Volontè, HQ ESA)

session organizer: S.Volontè, HQ ESA

**room: Duca**

- A. Boyarintsev (ISM Kharkov): Position Sensitive Scintillators for Astrophysical Applications.
- M. Cherry (LSU Baton Rouge): Lanthanum Halide Scintillators and Optical Fiber readout for X-Ray/Gamma-Ray Astronomy.
- F. Giordano (INFN Bari): Design of a Silicon Transition Radiation Detector (SiTRD) for Accelerator and Space Applications.
- A. Mozzanica (Uni Milano): A High Granularity Silicon Beam Monitor for Wide Range Multiplicity Beams.

16.00 - 16.30 coffee break

parallel session VIII-b on Astroparticle & Underground. Experiments (Chairman: A.Capone (Univ. La Sapienza, Rome)

session organizer: Antonio Capone (Univ. La Sapienza, Rome) David Saltzberg (UCLA)

**room: Duca**

- K. Hanson (University of Wisconsin, USA): Recent AMANDA Results.
- S. Cecchini (INFN Bologna, Italy): Applications of Nuclear Track Detectors in Astroparticle and Nuclear Physics.
- D. Grandi (University Milano Bicocca, Italy): A 2d Stochastic Monte Carlo for the Solar Modulation of GCR: a Procedure to fit Interplanetary Parameters comparing to the Experimental Data.
- D. Fargion (University La Sapienza, Roma, Italy): Ultra High Cosmic Rays, SUSY and UHE Neutrinos Showering at the Horizons.
- S. Maltezos (NTUA, Greece): Detection efficiency and optimization of Earth skimming UHECR Tau Neutrino Telescope.



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

### THURSDAY 20

8.30

GEANT4 Symposium  
 Ses.Org.:S.Giani, P.Binko  
 Chairm.: S.Giani  
 Room: Salone

10.30-11.00  
 Coffee break

11.00  
 GEANT4 Symposium  
 Ses.Org.:S.Giani, P.Binko  
 Chairm.: S.Giani  
 Room: Salone

13.00-14.30  
 Lunch

14.30	14.30	14.30	14.00	14.00
(XIII) GEANT4&SW app Ses.Org.:S.Giani, P.Binko Chairm.: S.Giani Room: Salone	(XIV) Advanced Detect and Particle Identificati Ses.Org.:E.Nappi,J.Seg Chairm.: E.Nappi Room: Sala Ovale	(XV) Radiation Damage II Ses.Org.:S.Baccaro Chairm.: S.Baccaro Room: Sala Bacco	(XVI) Radioth.&Med.Imag Ses.Org.:V.Sossi Chairm.: V.Sossi Room: Sala Musica	(VIII-c) Astroparticle &Underg. Exper. Ses.Org.:Capone, Saltzberg Chairm.: A.Capone Room: Sala Duca

16.00-16.30  
 Coffee break

16.30	16.30	16.30	16.30	16.30
(XIII) GEANT4&SW app Ses.Org.:S.Giani, P.Binko Chairm.: P.Binko Room: Salone	(XIV) Advanced Detect and Particle Identificati Ses.Org.:E.Nappi,J.Seg Chairm.: E.Nappi Room: Sala Ovale	(XV) Radiation Damage II Ses.Org.:S.Baccaro Chairm.: S.Baccaro Room: Sala Bacco	(XVI) Radioth.&Med.Imag Ses.Org.:V.Sossi Chairm.: V.Sossi Room: Sala Musica	(VIII-c) Astroparticle &Underg. Exper. Ses.Org.:Capone, Saltzberg Chairm.: D.Saltzberg Room: Sala Duca

18.00

18.00  
 Accelerator and Computer  
 Data/Networking Dev.  
 Ses.Org.:R.Ruchti  
 Chairm.:R.Ruchti  
 Room: Salone

18.40

18.40 Adjourn



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

Thursday 20

plenary session : 8.30 - 10.30

8.30-10.30 plenary session on GEANT4 Symposium: Industry & Space (Chairman: S.Giani, CERN)

session organizer: S.Giani, CERN – P.Binko, SynSpace SA

**room: SALONE**

### GEANT4 / INDUSTRY

R. Thompson (GENERAL ELECTRICS): The Radiation Imager Virtual Laboratory

M. Conti (SIEMENS-CPS): Monte Carlo Simulation of PET Systems

### GEANT4 / SPACE

G. Santin (EUROPEAN SPACE AGENCY): Applications of GEANT4 for the ESA Space Programme

M. Asai (SLAC – NASA GSFC – Vanderbilt U.): GEANT4 Applications for NASA Space Missions

10.30 - 11.00 coffee break

11.00-13.00 plenary session on GEANT4 Symposium: Medicine & Technology (Chairman: S.Giani, CERN)

session organizer: S.Giani, CERN – P.Binko, SynSpace SA

**room: SALONE**

### GEANT4 / MEDICINE

A. Brahme (KAROLINSKA INST.): Application of GEANT4 in Development of New Radiation Therapy Treatment Methods

M.G. Pia (INFN): GEANT4 Applications in Medicine

### GEANT4 / TECHNOLOGY

K. Amako (KEK): GEANT4 Application to Carbon Ion-Therapy in Japan

I.Buvat (INSERM): Open-GATE Project for Emission Tomography



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

Thursday 20

parallel sessions: 14.30 - 18.00

parallel session XIII on GEANT4 Symposium: Physics (Chairman: S.Giani, CERN)

session organizer: S.Giani, CERN – P.Binko, SynSpace SA

**room: Salone**

### GEANT4 / PHYSICS

J.P. Wellisch (CERN): Detector Simulation in HEP

M. Ellis (IMPERIAL COLLEGE): GEANT4 Accelerator Applications

parallel session XIII on Software Applications (Chairman:P.Binko, SynSpace SA)

session organizer: S.Giani, CERN – P.Binko, SynSpace SA

**room: Salone**

### SOFTWARE APPLICATIONS

O. Okudaira (Advanced Research Institute for Science and Engineering, Okubo): Geant4 Monte Carlo Simulation to Estimate Gamma-ray Emissions from Lunar Surface and SELENE Spacecraft

P. Goncalves (Laboratório de Instrumentação e Física Experimental de Partículas): Simulation of Radiation Monitors for Future Space Missions

16.00 - 16.30 coffee break

A. Salzburger (Universitaet Innsbruck): Track Extrapolation with Intrinsic Navigation in the New ATLAS Tracking Scheme

E. Barberio (University of Melbourne): Fast Shower parameterization for Electromagnetic Cascades

C. Tezuka (Waseda University): Monte-Carlo Simulation of Angular Resolution of New Compton Imaging Camera for Planetary Science - High-Pressure Xenon

B. Duchting (Oracle GmbH): Managing Scientific Data with ORACLE 10g



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

parallel session XIV on Advanced Detectors and Particle Identification (Chairman: E. Nappi, INFN-Bari)

session organizer: E. Nappi, INFN-Bari and J. Seguinot, College de France

**room: Ovale**

S. Adenwalla (University of Nebraska): A Novel Solid State Thermal Neutron Detector: Boron Carbide Semiconductor Detectors

V. Balagura (ITEP, Moscow): Study of Scintillator Strip with Wavelength Shifting Fiber and Silicon Photomultiplier

M. Bonesini (INFN-Milano): Performances in High Magnetic Fields of Fine-mesh Photomultipliers for fast time

A. De Sio (University of Florence): Ultraviolet and X-ray Diamond Photodetector

16.00 - 16.30 coffee break

A. Georgobiani (*P.N.Lebedev Physical Institute, Russia*): Influence of GaAs Substrate Ion Implantation on GaN Growth by Radical-Beam Getting Epitaxy

N. Pomorsky (GSI, Darmstadt): Single Crystal CVD Diamond Detectors for Hadron Physics

S. Sciortino (INFN-Florence): Modeling of Deep Traps in Diamond Detectors

G. Zampa (INFN- Trieste): Spectroscopic Performances of Very Large Area Silicon Drift Detector

parallel session XV on Radiation Damage (Chairman: Stefania Baccaro, ENEA, Italy)

session organizer: Stefania Baccaro, ENEA, Italy

**room: Bacco**

F. Nessi-Tedaldi (ETH, Zurich, Switzerland): Crystals for High-Energy Calorimetry in Extreme Environments

E. Mihokova (Institute of Physics, AS CR Prague, Czech Republic): Scintillator and Phosphor Materials: Latest Developments and Applications

A. Cecilia (ENEA, Casaccia, Rome Italy): Chinese PbWO<sub>4</sub> Crystals for the Electromagnetic Calorimeter of CMS Experiment

16.00 - 16.30 coffee break



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

- S. Diluise (University and INFN RomaTre, Rome, Italy): MDT Chambers Ageing Test at ENEA Casaccia Tapiro Nuclear Facility
- I. Di Sarcina (ENEA, Casaccia, Rome, Italy): Behaviour of Optical Film Materials under Gamma Irradiation in Earth orbit
- P. Giubilato (University and INFN Padova, Italy): Ion Electron Emission Microscopy for SEE Studies
- J.P. Merlo (University of Iowa at Cern, Switzerland): Radiation-Hardness studies of High OH- Content Quartz Fibers Irradiated with 24 GeV Protons
- Zhu Chaofeng (ECUST, Shanghai, China): Gamma Irradiation Effects on SrO-B<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub>:Eu<sup>2+</sup> Phosphors

parallel session XVI on Radiotherapy and Medical Imaging Title (Chairman: V Sossi, UBC)

session organizer: Vesna Sossi UBC

**room: Musica**

- S. Bocci (DASS - Università degli Studi di Firenze / LNF – INFN, Italy): Optimized IR Detectors for IRSR Microspectroscopy and Biomedical Imaging.
- N. Burgio (ENEA, Italy): Monte Carlo Simulations of a Human Phantom Radio Pharmacokinetic Response on a Small Field of View Scintigraphic Device.
- D. Crossetto (3D-Computing, Inc, Italy): Rethinking Positron Emission Technology for Early Cancer Detection.

**16.00 - 16.30 coffee break**

- R. Novario (Universita' dell'Insubria, sede di Como): Treatment Planning with IVUS Imaging and Monte Carlo Simulation in Intravascular Brachytherapy.
- G. Bartesaghi (Universita' dell'Insubria, sede di Como, Italy): Spectral and Spatial Distribution of the Scattered Radiation of an Electron Radiotherapy Beam.
- T. Berghoefer (Forschungszentrum Karlsruhe, Institut fuer Kernphysik, Germany): A Liquid Ionization Chamber Used as Monitor in Radiotherapy.
- G. Gambarini (Dept. of Physics of University Milano, Italy): 3D-Reconstruction of Absorbed Dose Obtained from Gel-Dosimeter-Layers.



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

parallel session VIII-c on on Astroparticle & Underground. Experiments (Chairman: D.Saltzberg (UCLA))  
session organizer: A. Capone (Univ. La Sapienza, Rome) D.Saltzberg (UCLA)

**room: Duca**

- S. Capelli (University Milano Bicocca, Italy): Background Analysis of CUORICINO in View of the Future Experiment CUORE.
- E. Andreotti (Univ. dell'Insubria, Como, Italy): The Underground Baradello Laboratory: Characterization of the Site and early Results on Gamma Ray and Neutron Spectrometry Measurements.
- O. Dragoun (Nuclear Phys. Institute, Prague, Czech Republic): Status of the KATRIN Experiment.
- J. Dawson (Univ. of Sussex, UK): Double Beta Decay Measurement with the COBRA Experiment.

16.00 - 16.30 coffee break

- E. Ferrer Ribas (DAPNIA CEA/Saclay, France): A Low Background Micromegas Detector for the CAST Experiment.
- M. Messina (ETHZ, Switzerland): Status Report of ArDM Project: a New Direct Detection Experiment, based on Liquid Argon, for the Search of Dark Matter in the Universe.
- Y. Kudenko (INR, Moskow, Russia): The T2K Experiment: Status and Instrumentation of the 280m near Detector.
- V. Mikhailik (University of Oxford): Development of Multiple Photon Counting Coincidence (MPCC) Technique for Characterisation of Scintillators for Cryogenic Applications.

At 18.00 up to 18.40

Open Session on Accelerator and Data/Networking Developments (Chairman: R.Ruchti, University of Notre Dame)

session organizer: R.Ruchti, University of Notre Dame

**room: Salone**

- B. Foster (Oxford University): The International Linear Collider: Status and Plans.



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

FRIDAY 21	
8.30	
Radiotherapy & Med.Img. Ses.Org.: V.Sossi Chairm.: V.Sossi	
Room: Salone	
10.30-11.00	
Coffee break	
11.00	
Radiotherapy & Med.Img. Ses.Org.: V.Sossi Chairm.: V.Sossi	
Room: Salone	
12.50	
Final Remarks	



VILLA OLMO (COMO-ITALIA)

## ICATPP Conferences

Friday 21

**plenary session: 8.30-13.30**

8.30-12.40 plenary session on Radiotherapy and Medical Imaging Title (Chairman: V Sossi, UBC)  
session organizer: V. Sossi UBC

**room: Salone**

C. Moore (Christie Hospital, UK): Low Dose, Low Energy 3d Image Guidance During Radiotherapy  
H. Szymanowski (DKFZ German Cancer Research Center, Germany): Applications of GEANT4 to Particle Beam Therapy

V. Cunningham (GlaxosmithKline, UK): Positron Emission Tomography - Tracer Kinetic Modelling in Drug Development

**10.30 - 11.00 coffee break**

M. Bonardi (Università degli Studi and INFN Milano, Italy): Radionuclides for Metabolic Radiotherapy, Production and Quality Control of High Specific Radionuclides by Accelerator and Nuclear Reactor

T Ruth (TRIUMF, Canada): Can Accelerators Meet the Nuclear Medicine Community's Needs for Radiotoxic Isotopes

A Converse (University of Wisconsin, USA): Development of a Dual Tracer PET Method for Imaging Dopaminergic Neuromodulation

12.50-13.10 plenary session on Closing Session (Chairman:R. Ruchti, University of Notre Dame)  
session organizer: R. Ruchti, University of Notre Dame

**room: Salone**

R.Ruchti (University of Notre Dame): Final Remarks