

INTERNATIONAL WORKSHOP ON

# POSITRONS IN ASTROPHYSICS

20-23 March  
2012,  
Mürren,  
Switzerland



## TOPICS

In situ measurements of cosmic ray positrons  
Observation of Galactic annihilation radiation  
Positrons from particle interactions  
Positrons from radioactivity  
Electron-positron plasmas  
Slowing and thermalisation of positrons  
Positronium and its recombination signatures  
The annihilation process and what we can learn from it  
Positron and positronium interactions with matter  
Antihydrogen: formation, trapping and study  
Laboratory modeling of astrophysical processes  
Future instrumentation

[www.astropositron.org](http://www.astropositron.org)

## CONTEXT SETTING SUMMARY TALKS

John Ellis (CERN Geneva)  
Roberto Battiston (INFN Perugia)  
Niels Madsen (Swansea University)  
Mirko Boezio (INFN Trieste)  
Roland Diehl (MPE Garching)  
Nikos Prantzos (IAP Paris)  
Pierre Salati (LAPTH Annecy)  
Mike Charlton (Swansea University)  
Paul Coleman (University of Bath)  
Gleb Gribakin (Queen's University Belfast)

**Scientific Organization Committee** : Felix Aharonian, DIAS Dublin / MPIK Heidelberg • Roberto Battiston, INFN Perugia • Céline Boehm, IPPP Durham / LAPTH Annecy • Igor Bray, Curtin University Perth  
Michael Charlton, Swansea University • Eugene Churazov, MPI Astrophysik • Garching • Paul Coleman, University of Bath • Michael Doser, CERN Geneva • Gleb Gribakin, Queen's University Belfast  
Nidhal Guessoum, American Univ. of Sharjah • Toshio Hyodo, KEK Tsukuba • Pierre Jean, IRAP Toulouse • Mark Leising, Clemson University • Pierrick Martin, IPAG Grenoble • Piergiorgio Picozza, INFN Rome  
Nikos Prantzos, IAP Paris • Gerry Skinner, GSFC Greenbelt • Clifford Surko, UCSD San Diego • Pietro Ubertini, IASF Rome • Tadayuki Takahashi, ISAS Tokyo • Peter von Ballmoos, IRAP Toulouse  
**Local Organization Committee** : Paolo Crivelli, ETH Zürich • Maurizio Falanga, ISSI Bern • Peter von Ballmoos, IRAP Toulouse • Roland Walter, ISDC Genève