Daniele Panzieri

Curriculum vitae

PERSONAL DATA

Born in Rome on 07.06.1955
Residence: Torino

BIO AND EDUCATION

- High school leaving qualifications: 1975 at L.S. "Galileo Ferraris" Torino;
- Degree in Physics on July 1980 at University of Turin;
- From September 1990: researcher at Faculty of Science M.F.N. - University of Turin;
- From November 1992: associate professor of general Physics at Faculty of Agriculture – University of Molise;
- From November 1993: associate professor et II Faculty of Science - University of Turin based in Alessandria (from August 1998: University of East Pedmont);
- In 2013, obtained the Abilitazione Scientifica Nazionale as full professor;

UNIVERSITY CAREER

1998-	Associate Professor, University of East Pedmont
1993-1998	Associate Professor, University of Turin
1992-1993	Associate Professor, University of Molise
1990-1992	Researcher, University of Turin

UNIVERSITY POSITIONS

2016-	Member of Commissione Internalizzazione, University of East Pedmont
1999-2005	Member of Council of Board of Directors del Consiglio di Amministrazione, University of East Pedmont
1999-2000	Member of Board of Directors, University of East Pedmont
1999-2000	Member of Commissione Informatizzazione, University of East Pedmont
1992-1999	Member of Consiglio di Gestione della II Faculty of Science, University of East Pedmont

SCIENTIFIC POSITIONS

2013-	National Responsible for INFN of the COMPASS experiment at CERN
2004-	National Responsible for INFN of the TO/AL group of the COMPASS experiment at CERN
2011-	Member of the Collaboration Board of the COMPASS experiment at CERN
2004-	Member of the Technical Board of the COMPASS experiment at CERN
2012-2015	Responsible of the Work Package WP18 of the European Project “Hadron

	physics3"
2009-2011	Responsible of the Work Package WP17 of the European Project "Hadron physics2"
2006-2007	Responsible of the Research Activity JRA9/Torino of the European Project "Hadron physics" for the Sixth Framwork Program FP6

MAIN FIELDS OF INTEREST

1. Particle Physics: study of the nucleons structure
2. Particle Physics: study of strange production in proton-proton collisions
3. Nuclear Physics: study of the interaction of slow pions with multi-nucleon systems
4. Technology: develpoment of front-end electronics for particle physics
5. Technology: develpoment of detectors for particle physics

CURRENT ISSUES OF RESEARCH

1. **Measurement of Drell-Yan events on a polarised target**
   On the basis of the results achieved in COMPASS (and other experiments) and the progress in the theory, the physics case for new measurements turned out to be clear and in 2010 the collaboration prepared a proposal for new measurements, in particular the study of Drell-Yan processes on a transversely polarised proton target, to measure transverse momentum dependent parton distribution functions, and in particular the Sivers function. The proposal was recommended for approval by the CERN SPSC Committee in September, and approved by the Research Board in December 2010. The three years of data taking for the Drell-Yan and the DVCS measurements starded with the data taking of DY in 2015 and will continue for the year 2016 and 2017, with a very likely estension to a second year of DY data taking.

2. **Eventi di DVCS per misure delle GPD**
   At the same time of the measuremts of the DY processes above described , the collaboration COMPASS will take data also on:
   deeply virtual Compton scattering (DVCS) on a long liquid hydrogen target to access the generalised parton distributions (GPDs);
   unpolarised semi-inclusive deep inelastic scattering, to be performed in parallel with DVCS.

CURRENT FUNDED PROJECTS

PROGRAMME	FUNDED PROJECT
Super Proton Sincroton (SPSC) del CERN, Ginevra (CH); *Funding Agency in Italy:* Istituto Nazionale di Fisica Nucleare, Frascati.	COMPASS – COmmon Muon Proton Apparatus for Structure and Spectroscopy https://wwwcompass.cern.ch/

TOP FIVE PAPERS

1. First measurement of the transverse spin asymmetries of the deuteron in semi-inclusive deep inelastic scattering
   PHYSICAL REVIEW LETTERS Volume: 94 Issue: 20 Article Number: 202002 Published: MAY 27 2005
2. The deuteron spin-dependent structure function g(1)(d) and its first moment
   PHYSICS LETTERS B Volume: 647 Issue: 1 Pages: 8-17 Published: MAR 29 2007
3. Collins and Sivers asymmetries for pions and kaons in muon-deuteron DIS
   PHYSICS LETTERS B Volume: 673 Issue: 2 Pages: 127-135 Published: MAR 16 2009
4. Measurement of the spin structure of the deuteron in the DIS region
   PHYSICS LETTERS B Volume: 612 Issue: 3-4 Pages: 154-164 Published: APR 21 2005
5. phi and omega meson production in pp reactions at p(lab)=3.67 GeV/c
   PHYSICAL REVIEW C Volume: 63 Issue: 2 Article Number: 024004 Published: FEB 2001