

**Title:** Introduction to CERN

**Lecturer:** Dr Schlatter, D.

**Date and Times:** 6<sup>th</sup> July at 10:15

## Biography

**Dr SCHLATTER, Wolf-Dieter**

**1965-1971:** Studies in physics at University of Göttingen, Hannover and Hamburg.

**1974:** PhD at Univ. Hamburg

**1976-1979:** Fellowship and research physicist staff position at CERN

Participation in CDHS neutrino scattering experiment at CERN SPS.

- Major role in reconstruction software.
- Analyses of multi-muon production. Study on origin of tri-muon production in neutrino interactions. Study of charm production in dimuon events.
- Measurements of proton structure functions and observation scaling violations in charged current interactions, first tests of QCD.

**1979-1982:** participation in Mark II experiment at SLAC at the  $e^+e^-$  collider PEP

- Measurement of  $\sigma_S$  with energy-energy correlations.
- QCD studies on jet evolution.
- Work with theorists on deep inelastic scattering (higher twist effects in proton structure functions) and on scaling violations in fragmentation functions in  $e^+e^-$  data, study of heavy quark fragmentation.

**From 1983** permanent CERN staff research physicist

Continued with CDHS

- Work on like-sign dimuons in neutrino scattering, resolved controversy on discrepancy with standard model.

**1983:** joined ALEPH collaboration

- Work on ALEPH TPC prototype experiment.
- In charge of TPC read-out and reconstruction software.
- Supervision of development of ALEPH physics analysis package.
- Preparation of physics analyses and measurements of electroweak physics at the Z (lineshape and asymmetries).
- Convenor of ALEPH electroweak physics group, then physics convenor for ALEPH.

**1997-2000:** chairman of ALEPH steering committee.

**April 2000:** ALEPH spokesman.

**Divisional or other CERN tasks:**

- 1988-1992 ALEPH experiment group leader

- 1988-1991 internal referee for PPE preprints
- 1994-1996 Organiser of CERN particle seminars
- 1994 Chairman of disciplinary board
- 1998 - 2000, ALEPH experiment group leader
- 1995 - 2000, PPE/EP representative in Fellows and Associates Committee
- 2001 - now, Leader of EP Division

**Committee tasks:**

- 1990-1994 Member of DESY Research Council and DESY Council representative in DESY PRC.
- 1992-1995 CERN representative and chairman of Particle Data Group Advisory Board at LBL/Berkeley.
- 1993-1995 Member of LEPC.
- 1996 Chairman of working group on controls in Research sector review.
- 2000, member of Fachbeirat MPI for Nuclear Physicists in Heidelberg
- 2001- ongoing, member of Scientific Council of GSI/Darmstadt