

# Paolo Bagnaia

## Academic career

- July 1971 : Italian *maturità classica*, 60/60;
- May 1976 : Sapienza University - Italian degree (*laurea*) in Physics, 110/110 cum laude;
- March 1982 : Sapienza University - Italian specialization school (*diploma di perfezionamento*) in Physics (Nuclear Physics), 60/60;
- 1976-1981 : Sapienza University and INFN (Istituto Nazionale di Fisica Nucleare) - temporary positions;
- 1981 : Sapienza University - Research associate (*Ricercatore confermato*) in Experimental Physics;
- 1983 : CERN (European Organization for Nuclear Research) - fellow, then Staff member;
- 1987 : Sapienza University - Associate professor (*Professore associato*) in Physics;
- 2000 : Sapienza University - Full professor (*Professore ordinario*) in General Physics;
- to date: Full Professor in Nuclear Physics, SSD FIS/04, SC 02/A1;
- lectures for non-physics students: Physics for students of Pharmacy, Pharmaceutical Chemistry, Natural Sciences;
- lectures for physics students (Master Degree, *Laurea Magistrale*): Experimental Elementary Particle Physics, Nuclear and Subnuclear Physics, Particle Physics, Collider Physics;
- specialized items in the PhD programme of Sapienza University and other Universities;
- member of many national and international scientific committees: INFN *Gruppo 1*, CERN SPS Committee, CERN ACCU (also chairman of ACCU), ...;
- *giunta* of the Physics Department, President of the Didactic Board of the Physics Department (*CAD in Fisica*), ...
- member of many selection boards for all types of positions (from PhD to full professor), member of a board for the National Scientific Qualification (ASN) for SC 02/A1;
- group leader of the ATLAS team of Roma-La Sapienza.

# Research

- 1975-1983 : member of the bubble chamber group of the Rome branch of INFN and Sapienza University. Experiments on heavy flavors (charm production and decay in neutrino interactions, charm production and decay in hadronic interactions);
- 1983-1988 : UA2 experiment at the CERN  $S\bar{p}\bar{p}S$ .  $W$  and  $Z$  discovery and precision studies, hadronic jets, structure functions, limits on new physics, detector development and construction (calorimetry);
- 1987-2001 : L3 experiment at the LEP collider  $e^+e^-$ .  $Z$  production and decay, fermion families determination,  $W^\pm$  production and decay, Higgs boson search, limits on new physics beyond the standard model, detector development and construction (trigger and data acquisition);
- 2001-today : ATLAS experiment at the LHC  $pp$  collider. Higgs boson discovery and study, electroweak and hadronic physics, limits on new physics beyond the Standard Model, detector development and construction (drift chambers for the barrel and forward-backward muon spectrometer);
- from ISI-WOS, period 1990-2019: 1100+ scientific papers on international journals with peer review (refereed) with 52,000+ citations and h-index (Hirsch) 97;
- from Inspire-HEP, period 1979-2019: 1190+ scientific papers on international journals with peer review (refereed) with 120,000+ citations and h-index (Hirsch) 155.

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