

# CURRICULUM VITAE

## Personal information

Jacques Chauveau  
Born April 4, 1950 in Paris VIII<sup>th</sup>  
Married

## Curriculum

1967	Baccalauréat Maths-Elem	Mention B
1972	Engineer - Ecole Centrale de Lyon	
1973	Graduate School - Orsay	Mention B
1981	PhD (Doctorat d'Etat) Université Paris VI	

## Professional Career

1974	Assistant at Collège de France
1987	Maître de conférences at Université Paris VII
1992	Professor at Université Paris VI
1997-1999	On leave at CNRS (Installation of BABAR experiment)
2001	Promotion to Professor 1st class
2007-2008	On leave at CNRS (Run coordination BABAR experiment)

## Scientific projects

1974-1981	meson-nucleon scattering at the CERN-PS
1978-1979	CERN fellow
1981-1983	Post-doc at Univ. Rochester (CLEO experiment)
1983-1985	R & D with LAPP-Annecy for the L3 collaboration (BGO)
1983-1987	neutrino experiments at CERN and BNL
1987-1989	B factory project at PSI, Switzerland
1990-1996	DELPHI Collaboration at CERN
1995-present	BABAR experiment at SLAC
2010-present	Pixel detector upgrade of the ATLAS experiment at CERN

## RESEARCH

I have been a researcher in particle physics since 1973. I started at CERN where I was part of two hadronic physics meson-nucleon scattering experiment. The first studied the reactions  $K_{L}^0 p \rightarrow K_{S,L}^0 p$ . I defended my PhD about large angle  $\pi^- p$  elastic scattering in January 1981.

After the *November 74 revolution* in particle physics, the field matured as a phenomenology of quarks and leptons. After my PhD, I concentrated on experiments on quarks (mainly the  $b$  quark) and neutrinos. I was a *postdoc* with the Univ. of Rochester on the CLEO experiment at Cornell University (1981-83). I worked on two neutrino experiments looking for neutrino decay and for oscillations: PS191 at CERN (1983-85) and E816 at Brookhaven (1985-87). In 1983-85, I also took part with LAPP Annecy in the R&D of the BGO electromagnetic calorimeter for the LEP L3 experiment. In 1987-89 I was involved in the preparation of the B factory at PSI in Switzerland. In 1990-96 I worked on LEP-1 at CERN as a member of the DELPHI experiment, studying baryons with a  $b$  quark. I have been a member of the BABAR Collaboration since the beginning in 1994 (and before). I have been leading the BABAR group at LPNHE until 2010. We participated to the construction of the DIRC Tcherenkov detector, were authors of the BABAR physics book, contributed to the reconstruction software. Three main analysis topics led to PhD theses that I supervised:  $B$  mesons lifetimes, the CKM angle  $\gamma$  in  $B \rightarrow DK$ , and three-body  $B$  meson decays with no charm in the final state. Since 2005, I have been following the ILC detector and physics developments. In 2007-08 I was one of the two *run coordinators* for the last data taking campaign of the BABAR experiment. In 2010, I have started sharing my research time between BABAR and the R and D on the pixel sensors for the upgrade of the ATLAS experiment at CERN.

## TEACHING

I have taught physics at all University levels and in most sequences: laboratory courses, problem sessions, full courses. I taught particle physics (my speciality), and also nuclear physics. I also was involved in most general physics classes. Electromagnetism for 2nd year students is my most recent course. I am one of three authors of a book of problems in subatomic physics.

I have been involved in University administration. I have been coordinating the 1st and 2nd year physics courses in 2000-02. I have been responsible

for the transition on to the *Bologna scheme* of the graduate school class in nuclear, particle, astroparticle and cosmology for the Paris-VI University since 2004. I have been co-responsible of the graduate school since 2008.

## OTHER ACTIVITIES

I have held many responsibilities in my lab LPNHE at Paris VI and VII, including the organization of the seminars, the redaction-in-chief of the *activity report* (which reports all the lab activities over a two-year period). I have been a member of the lab scientific and laboratory councils. I was the ECFA representative of the lab in 2000-03. In 2005-07 I was in the board of the FRIF, a federation of research which builds ties between our experimental lab and theoretical labs on campus and at Ecole Normale.

I have been a member of the scientific council of IN2P3.

At the University, I have regularly been elected a member of the recruitment committees for nuclear and particle physics (currently at Paris VI and Paris-XI-Orsay). Since 2010 I have been the vice-chair of the faculty scientific council. In 2003-2007 I was a member of the national board which oversees recruitment and promotion of professors in the French University system.

I have supervised 6 PhD students. I have been a member of conference organizing committees.

I have been involved in the French Physical Society. In 2004-06 I was chairing the particles and fields division.