

## SHORT SELECTION OF PUBLICATIONS

(sorted by research subjects)

### ***Light nuclei (1985-1990) at TRIUMF and SATURNE :***

- 1) Radiative capture of polarized neutrons by protons at medium energies :  
proceedings of Polarization Phenomena in Nuclear Physics 1985 in Osaka, p. 832
- 2) Radiative capture of polarized neutrons above pion production threshold :  
Nucl. Phys. A 472 (1987) 701.
- 3) Spin transfer, KSS, in the  $pp \rightarrow d\pi^+$  reaction :  
Nuclear physics A 503 (1989) 649.

### ***Neutrino oscillations at Bugey (1985-1995) :***

- 4) Search For Neutrino oscillations at 15,40 and 95 meters from a nuclear power  
reactor at Bugey : Nucl. Phys. B 434 (1995) 503.
- 5) The Bugey III neutrino detector : Nucl. Instr. and Meth. A374 (1996) 164.
- 6) Comparison of anti-neutrino reactor spectrum models with the Bugey 3 measurements: Phys. Lett. B374 (1996) 243.

### ***Cold fusion (1989-1990) :***

- 7) Search for emission of neutrons from a palladium-deuterium system :  
Phys. Lett.. B 232 (1989) 536.
- 8) Limits on neutron emission following deuterium absorption into palladium and titanium :Phys. Rev. Lett. 65 (1990)  
1196.
- 9) Limits on electrochemically induced fusion of deuterium by neutron flux measurements : Phys. Lett. B 234 (1990)  
389.

### ***LHC & ATLAS (1991 -) at CERN :***

- 10) Sensitivity study for new gauge bosons and right-handed Majorana neutrinos in pp collisions at  $\sqrt{s} = 14$  Tev :  
Phys.Rev. D62 (2000) 013001
- 11) The ATLAS Experiment at the CERN Large Hadron Collider : JINST 3 (2008) S08003

- 12) Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC : Phys.Lett. B716 (2012) 1-29
- 13) Combined search for the Standard Model Higgs boson using up to  $4.9 \text{ fb}^{-1}$  of pp collision data at  $\sqrt{s}=7 \text{ TeV}$  with the ATLAS detector at the LHC : Phys.Lett. B710 (2012) 49-66
- 14) Search for charged Higgs bosons decaying via  $H^+$  to tau nu in top quark pair events using pp collision data at  $\sqrt{s}=7 \text{ TeV}$  with the ATLAS detector : JHEP 1206 (2012) 039
- 15) Search for charged Higgs bosons through the violation of lepton universality in  $t\bar{t}$  events using pp collision data at  $\sqrt{s}=7 \text{ TeV}$  with the ATLAS experiment : JHEP 1303 (2013) 076
- 16) Search for charged Higgs bosons decaying into top and bottom quarks at  $\sqrt{s} = 13 \text{ TeV}$  : JHEP 1811 (2018) 085
- 17) Production and Integration of the ATLAS Insertable B-Layer : JINST 13 (2018) no.05, T05008

***Muon and neutrino factories (1999-2001) at CERN :***

- 18) Prospective study of muon storage rings at CERN :  
CERN yellow report , CERN-99-02 , ECFA 99-197
- 19) Pion production models and neutrino factories , J. Collot , H. Kirk and N. Mokhov :  
Nucl. Instr. and Meth. A451 (2000) 327
- 20) Neutrino Beam & experiments : summary, A. Blondel et al. :  
Nucl. Instr. and Meth. A451 (2000) 102

***Positron Emission Tomography (1998-2004) :***

- 21) GePEToS , A Geant4 Monte Carlo package for Positron Emission Tomography :  
IEEE Trans. Nucl. Science , Vol. 52, N0 1 (2005)
- 22) A Liquid Xenon Positron Emission Tomograph for small animal imaging: First experimental results of a prototype cell : Nucl.Instrum.Meth. A599 (2009) 275-283

***Hadrontherapy (2007-2011) :***

- 23) Principle design of a protontherapy, rapid-cycling, variable energy spiral FFAG, Nucl. Instru., Meth. A602 (2009) 293