

# Publications

## Articles publiés dans des revues scientifiques

### Quarks, leptons et symétries fondamentales

A.V. Kotwal et al. - Measurement of the W boson Mass at the TeVatron - *Ann. Rev. Nucl. Part. S.* 58 (2008) 147-175

Tsan Ung Chan - Is it possible to conserve electric charge without conserving separately baryonic number and leptonic number? - *Int. J. Mod. Phys. E* 17 (2008) 1591-1603

### DELPHI Collaboration

J. Abdallah et al.

Measurement of the tau lepton polarisation at LEP2 - *Phys. Lett. B* 659 (2008) 65-73

Study of W boson polarisations and triple gauge boson couplings in the reaction  $e^+e^- \rightarrow W^+W^-$  at LEP2 - *Eur. Phys. J. C* 54 (2008) 345-364

Higgs boson searches in CP-conserving and CP-violating MSSM scenarios with the DELPHI detector - *Eur. Phys. J. C* 54 (2008) 1-35

Measurement of the mass and width of the W boson in  $e^+e^-$  collisions at  $\sqrt{s} = 161-209$  GeV - *Eur. Phys. J. C.* 55 (2008) 1-38

Di-jet production in collisions at LEP2 - *Eur. Phys. J. C* 58 (2008) 531-541

Observation of the muon inner bremsstrahlung at LEP1 - *Eur. Phys. J. C* 57 (2008) 499-514

Study of b-quark mass effects in multijet topologies with the DELPHI detector at LEP - *Eur. Phys. J. C* 55 (2008) 525-538

Higgs boson searches in CP-conserving and CP-violating MSSM scenarios with the DELPHI detector; Erratum to: *Eur. Phys. J. C* 54, 1-35 (2008) - *Eur. Phys. J. C* 56 (2008) 165-170

A study of  $b\bar{b}$  production in  $e^+e^-$  collisions at  $\sqrt{s} = 130-207$  GeV - *Eur. Phys. J. C* 60 (2009) 1-15

Search for one large extra dimension with the DELPHI detector at LEP - *Eur. Phys. J. C* 60 (2009) 17-23

Inclusive single-particle production in two-photon collisions at LEP II with the DELPHI detector - *Phys. Lett. B* 678 (2009) 444-449

Correlations between polarisation states of W particles in the reaction  $e^+e^- \rightarrow W^+W^-$  at LEP2 Energies 189-209 GeV - *Eur. Phys. J. C* 63 (2009) 611-623

### ATLAS

E. Obreshkov et al. - Organization and management of ATLAS offline software releases - *Nucl. Instrum. Meth. A* 584 (2008) 244-251

G. Aad et al. ATLAS Collaboration - The ATLAS experiment at the CERN Large Hadron Collider - *JINST* 3 (2008) S08003

N.J. Buchanan et al. - Design and implementation of the Front End Board for the readout of the ATLAS liquid argon calorimeters - *JINST* 3 (2008) P03004

N.J. Buchanan et al. - Radiation qualification of the front-end electronics for the readout of the ATLAS liquid argon calorimeters - *JINST* 3 (2008) P10005

M. Aleksa et al. - Construction, assembly and tests of the ATLAS electromagnetic end-cap calorimeters - *JINST* 3 (2008) P06002

N.J. Buchanan et al. - ATLAS liquid argon calorimeter front end electronics - *JINST* 3 (2008) P09003

M. Aharrouche et al. - Time resolution of the ATLAS barrel liquid argon electromagnetic calorimeter - *Nucl. Instrum. Meth. A* 597 (2008) 178-188

E. Abat et al. ATLAS Collaboration - Study of the response of the ATLAS central calorimeter to pions of Energies from 3 to 9 GeV - *Nucl. Instrum. Meth. A* 607 (2009) 372-386

M. Aharrouche et al. - Study of the response of ATLAS electromagnetic liquid argon calorimeters to muons - *Nucl. Instrum. Meth. A* 6606 (2009) 419-431

C. Adloff et al. - Response of the CALICE Si-W electromagnetic calorimeter physics prototype to electrons - *Nucl. Instrum. Meth. A* 608 (2009) 372-383

### ATLAS Transition Radiation Tracker (TRT)

E. Abat et al.

The ATLAS transition radiation tracker (TRT) proportional drift tube: design and performance - *JINST* 3 (2008) P02013

The ATLAS TRT barrel detector - *JINST* 3 (2008) P02014

The ATLAS transition radiation tracker (TRT) electronics - *JINST* 3 (2008) P06007

Combined performance tests before installation of the ATLAS semiconductor and transition radiation tracking detectors - *JINST* 3 (2008) P08003

The Atlas TRT end-cap detectors - *JINST* 3 (2008) P10003

### D0

V.M. Abazov et al. D0 Collaboration

Erratum to: "Search for particles decaying into a Z boson and a photon in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV" [Phys. Lett. B 641 (2006) 415] - *Phys. Lett. B* 670 (2009) 455-458

Measurement of the ratios of the  $Z/\gamma^* + \geq n$  jet production cross sections to the total inclusive  $Z/\gamma^*$  cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Lett. B* 658 (2008) 112-119

Search for the lightest scalar top quark in events with two leptons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Lett. B* 675 (2009) 289-296

Erratum to measurement of  $\sigma(p\bar{p} \rightarrow Z).Br(Z \rightarrow \tau\tau)$  at  $\sqrt{s} = 1.96$  TeV, published in *Phys. Rev. D* 71, 072004 (2005) - *Phys. Rev. D* 77 (2008) 039901(E)

Erratum: measurement of inclusive differential cross sections for  $Y(1S)$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV [*Phys. Rev. Lett.* 94, 232001 (2005)] - *Phys. Rev. Lett.* 100 (2008) 049902

Erratum: Measurement of the  $WW$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV [*Phys. Rev. Lett.* 94, 151801 (2005)] - *Phys. Rev. Lett.* 100 (2008) 139901

Search for the lightest scalar top quark in events with two leptons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Lett. B* 659 (2008) 500-508

Search for flavor-changing-neutral-current D meson decays - *Phys. Rev. Lett.* 100 (2008) 101801

Measurement of the muon charge asymmetry from  $W$  boson decays - *Phys. Rev. D* 77 (2008) 011106(R)

Search for  $W'$  bosons decaying to an electron and a neutrino with de D0 detector - *Phys. Rev. Lett.* 100 (2008) 031804

Search for Randall-Sundrum gravitons with  $1 \text{ fb}^{-1}$  of data from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 100 (2008) 091802

Search for the supersymmetry in di-photon final states at  $\sqrt{s} = 1.96$  TeV - *Phys. Lett. B* 659 (2008) 856-863

Observation and properties of the orbitally excited  $B_{s2}^*$  meson - *Phys. Rev. Lett.* 100 (2008) 082002

Model-independent measurement of the  $W$ -Boson helicity in top-quark decays at D0 - *Phys. Rev. Lett.* 100 (2008) 062004

Search for scalar neutrino superpartners  $e+\mu$  in final states in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 100 (2008) 241803

A combined search for the standard model Higgs boson at  $\sqrt{s} = 1.96$  TeV - *Phys. Lett. B* 663 (2008) 26-36

Search for  $Z$  and  $Z\gamma^*$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV and limits on anomalous  $ZZZ$  and  $ZZ\gamma^*$  couplings - *Phys. Rev. Lett.* 100 (2008) 131801

Measurement of the shape of the boson-transverse momentum distribution in  $p\bar{p} \rightarrow Z/\gamma^* \rightarrow e^+e^-+X$  events produced at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 100 (2008) 102002

Measurement of the forward-backward charge asymmetry in top-quark pair production - *Phys. Rev. Lett.* 100 (2008) 142002

Erratum to: "Measurement of the isolated photon cross section  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV" (*Phys. Lett. B* 639 (2006) 151) - *Phys. Lett. B* 658 (2008) 285-289

Search for excited electrons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. D* 77 (2008) 091102(R)

Search for squarks and gluinos in events with jets and missing transverse energy using  $2.1 \text{ fb}^{-1}$  of  $p\bar{p}$  collision data at  $\sqrt{s} = 1.96$  TeV - *Phys. Lett. B* 660 (2008) 449-457

Simultaneous measurement of the ratio  $B(t \rightarrow Wb)/B(t \rightarrow Wq)$  and the top quark pair production cross section with the D0 detector at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 100 (2008) 192003

Measurement of  $B_s^0$  mixing parameters from the flavor-tagged decay  $B_s^0 \rightarrow J/\Psi\phi$  - *Phys. Rev. Lett.* 101 (2008) 241801

Measurement of the inclusive jet cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 101 (2008) 062001

Study of direct CP violation  $B^\pm \rightarrow J/\Psi K^\pm(\pi^\pm)$  decays - *Phys. Rev. Lett.* 100 (2008) 211802

Observation of the  $B_c$  meson mass in the exclusive decay  $B_c \rightarrow J/\Psi$  - *Phys. Rev. Lett.* 101 (2008) 012001

Evidence for production of single top quarks - *Phys. Rev. D* 78 (2008) 012005

First study of the radiation-amplitude zero in  $W\gamma$  production and limits on anomalous  $WW\gamma$  couplings at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 100 (2008) 241805

Search for pair production of doubly-charged Higgs bosons in the  $H^{++}H^-\mu^+\mu^+\mu^-\mu^-$  final state at D0 - *Phys. Rev. Lett.* 101 (2008) 071803

Search for large extra dimensions via single photon plus missing energy final states at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 101 (2008) 011601

Measurement of the  $\bar{u}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 100 (2008) 192004

Measurement of the differential cross section for the production of an isolated photon with associated jet in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Lett. B* 666 (2008) 435-445

Search for  $W'$  boson resonances decaying to a top quark and a bottom quark - *Phys. Rev. Lett.* 100 (2008) 211803

Measurement of the forward-backward charge asymmetry and extraction of  $\sin^2\theta_W^{eff}$  in  $p\bar{p} \rightarrow Z/\gamma^* \rightarrow e^+e^-+X$  events produced at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 101 (2008) 191801

Search for Higgs bosons decaying to tau pairs in  $p\bar{p}$  collisions with the D0 detector - *Phys. Rev. Lett.* 101 (2008) 071804

Search for neutral Higgs bosons in multi- $b$ -jet events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 101 (2008) 221801

Search for long-lived particles decaying into electron or photon pairs with the D0 detector - *Phys. Rev. Lett.* 101 (2008) 111802

- Search for third generation scalar leptoquark decaying to  $\tau b$  - *Phys. Rev. Lett.* 101 (2008) 241802
- Search for  $\bar{t}$  resonances in the lepton plus jets final state in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Lett. B* 668 (2008) 98-104
- Search for scalar top quarks in the acoplanar charm jets and missing transverse energy final state in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Lett. B* 665 (2008) 1-8
- Measurement of the ratio of the  $p\bar{p} \rightarrow W+c$  - jet cross section to the inclusive  $p\bar{p} \rightarrow W +$  jets cross section - *Phys. Lett. B* 666 (2008) 23-30
- Search for decay of a fermiophobic Higgs boson  $h_f \rightarrow \gamma\gamma$  with the D0 detector at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 101 (2008) 051801
- Search for scalar leptoquarks and T-odd quarks in the acoplanar jet topology using  $2.5\text{fb}^{-1}$  of  $p\bar{p}$  collision data at  $\sqrt{s}=1.96$  TeV - *Phys. Lett. B* 668 (2008) 357-363
- $ZZ \rightarrow l^+l^- \nu\bar{\nu}$  production in  $p\bar{p}$  collisions data at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. D* 78 (2008) 072002
- Observation of  $Z$  production in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 101 (2008) 171803
- A search for the standard model Higgs boson in the missing energy and acoplanar  $b$  - jet topology at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 101 (2008) 251802
- Observation of the doubly strange  $b$  baryon  $\Omega_b^-$  - *Phys. Rev. Lett.* 101 (2008) 232002
- Measurement of the polarization of the  $Y(1S)$  and  $Y(2S)$  states in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 101 (2008) 182004
- Search for anomalous  $Wtb$  couplings in single top quark production - *Phys. Rev. Lett.* 101 (2008) 221801-
- Precise measurement of the top quark mass from lepton + jets events - *Phys. Rev. Lett.* 101 (2008) 182001
- Measurement of the electron charge asymmetry in  $p\bar{p} \rightarrow W+X \rightarrow e\nu+X$  events at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 101 (2008) 211801
- Measurement of differential  $Z/\gamma^* +$  jet +  $X$  cross sections in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Lett. B* 669 (2008) 278-286
- Search for associated  $W$  and Higgs boson production in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 102 (2009) 051803
- Measurement of the semileptonic branching ratio of  $B_s^0$  to an orbitally excited  $D_s^{**}$  state  $B_1(B_s^0 \rightarrow D_{s1}^{*}(2536)\mu^+\nu X)$  - *Phys. Rev. Lett.* 102 (2009) 051801
- Measurement of the lifetime of the  $B_c^\pm$  meson in the semileptonic decay channel - *Phys. Rev. Lett.* 102 (2009) 092001
- Search for a scalar or vector particle decaying into  $Z\gamma$  in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Lett. B* 671 (2009) 349-355
- Measurement of  $\sigma(p\bar{p} \rightarrow Z+X).Br(Z \rightarrow \tau^+\tau^-)$  at  $\sqrt{s}=1.96$  TeV - *Phys. Lett. B* 670 (2009) 292-299
- Search for pair production of second generation scalar leptoquarks - *Phys. Lett. B* 671 (2009) 224-232
- Search for large extra spatial dimensions in the dielectron and diphoton channels in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 102 (2009) 051601
- Measurement of the angular and lifetime parameters of the decays  $B_d^0 \rightarrow J/\psi K^{*0}$  and  $B_s^0 \rightarrow J/\psi \phi$  - *Phys. Rev. Lett.* 102 (2009) 032001
- Search for long-lived charged massive particles with the D0 detector - *Phys. Rev. Lett.* 102 (2009) 161802
- Search for charged Higgs bosons decaying to top and bottom quarks in collisions - *Phys. Rev. Lett.* 102 (2009) 191802
- Relative rates of  $B$  meson decays into  $\Psi(2S)$  and  $J/\psi$  mesons - *Phys. Rev. D.* 79 (2009) 111102
- Evidence of  $WW + WZ$  production with lepton + jets final states in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 102 (2009) 161801
- Search for neutral Higgs bosons at high  $\tan\beta$  in the  $b(h/H/A) \rightarrow b\tau^+\tau^-$  channel - *Phys. Rev. Lett.* 102 (2009) 051804
- Evidence for the decay  $B_s^0 \rightarrow D_s^{(*)} D_s^{(*)}$  and a measurement of  $\Delta\Gamma_s^{CP}/\Gamma_s$  - *Phys. Rev. Lett.* 102 (2009) 091801
- Search for the lightest scalar top quark in events with two leptons in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Lett. B* 675 (2009) 289-295
- Search for anomalous top-quark couplings with the D0 detector - *Phys. Rev. Lett.* 102 (2009) 092002
- Search for admixture of scalar top quarks in the  $\bar{t}$  lepton+ jets final state at  $\sqrt{s}=1.96$  TeV - *Phys. Lett. B* 674 (2009) 4-10
- Measurement of  $\gamma + b + X$  and  $\gamma + c + X$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 102 (2009) 192002
- Measurement of the  $Z\gamma \rightarrow \nu\bar{\nu}\gamma$  production cross section and limits on anomalous  $ZZ\gamma$  and  $ZZ\gamma$  couplings in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 102 (2009) 201802
- Search for resonant diphoton production with the D0 detector - *Phys. Rev. Lett.* 102 (2009) 231801
- Measurements of differential cross sections of  $Z/\gamma^* +$  jets +  $X$  events in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Lett. B* 678 (2009) 45-54
- Search for the standard model Higgs boson in tau final states - *Phys. Rev. Lett.* 102 (2009) 251801
- Search for resonant pair production of neutral long-lived particles decaying to  $b\bar{b}$  in  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV - *Phys. Rev. Lett.* 103 (2009) 071801

Search for dark photons from supersymmetric hidden valleys - *Phys. Rev. Lett.* 103 (2009) 081802

Measurement of the  $t\bar{t}$  production cross section and top quark mass extraction using dilepton events in  $p\bar{p}$  collisions - *Phys. Lett. B* 679 (2009) 177-185

Search for Next-to-Minimal Supersymmetric Higgs bosons in the  $h \rightarrow aa \rightarrow \mu\mu \mu\mu, \mu\mu \tau\tau$  channels using  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. Lett.* 103 (2009) 061801

Observation of single top quark production - *Phys. Rev. Lett.* 103 (2009) 092001

Search for quark production in events with jets, hadronically decaying tau leptons and missing transverse energy at  $\sqrt{s} = 1.96$  TeV - *Phys. Lett. B* 680 (2009) 24-33

Search for associated production of charginos and neutralinos in the trilepton final state using  $2.3 \text{ fb}^{-1}$  of data - *Phys. Lett. B* 680 (2009) 34-43

Search for charged Higgs bosons in decays of top quarks - *Phys. Rev. D* 80 (2009) 051107(R)

Direct measurement of the mass difference between top and antitop quarks - 0906.1172 - *Phys. Rev. Lett.* 103 (2009) 132001

Combination of  $t\bar{t}$  cross section measurements and constraints on the mass of the top quark and its decays into the charged Higgs bosons - *Phys. Rev. D* 80 (2009) 071102R

Search for pair production of first-generation leptoquarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Lett. B* 681 (2009) 224-232

Measurement of the  $W$  boson mass - *Phys. Rev. Lett.* 103 (2009) 141801

A novel method for modelling the recoil in  $W$  boson events at hadron colliders - *Nucl. Instrum. Meth. A* 609 (2009) 250-262

Measurement of trilinear gauge boson couplings from  $WW + WZ \rightarrow lvj$  events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Rev. D* 80 (2009) 053012

Measurement of the  $WW$  production cross section with dilepton final states in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV and limits on anomalous trilinear gauge couplings - *Phys. Rev. Lett.* 103 (2009) 191801

Measurement of dijet angular distributions at  $\sqrt{s} = 1.96$  TeV and searches for quark compositeness and extra spatial dimensions - *Phys. Rev. Lett.* 103 (2009) 191803

Measurement of the top quark mass in final states with two leptons - *Phys. Rev. D* 80 (2009) 092006

Search for charged Higgs bosons in top quark decays - *Phys. Lett. B* 682 (2009) 278-286

Direct measurement of the  $W$  boson width - *Phys. Rev. Lett.* 103 (2009) 231802

Measurement of the t-channel single top quark production cross section - *Phys. Lett. B* 682 (2009) 363-369

Measurement of  $Z/\gamma^* + \text{jet} + X$  angular distributions in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV - *Phys. Lett. B* 682 (2009) 370-380

## Futures machines (ILC, SHLC)

M. Dahoumane et al. - A low power and low signal 4 bit 50MS/s double sampling pipelined ADC for Monolithic Active Pixel Sensors - *JINST* 3 (2008) P03002

J. Repond et al. Calice Collaboration - Design and electronics commissioning of the physics prototype of a Si-W electromagnetic calorimeter for the International Linear Collider - *JINST* 3 (2008) P08001

## Interactions fondamentales avec les UCN

V.V. Nesvizhevsky et al. - Neutron scattering and extra-short-range interactions - *Phys. Rev. D* 77 (2008) 034020

V.V. Nesvizhevsky et al. - The reflection of very cold neutrons from diamond powder nanoparticles - *Nucl. Instrum. Meth. A* 595 (2008) 631-636

V. Nesvizhevsky et al. - Centrifugal quantum states of neutrons - *Phys. Rev. A* 78 (2008) 033616

I. Altarev et al. - Neutron to mirror-neutron oscillations in the presence of mirror magnetic fields - *Phys. Rev. D* 80 (2009) 032003

E.V. Lychagin et al. - Storage of very cold neutrons in a trap with a nano-structured walls - *Phys. Lett. B* 679 (2009) 186-190

I. Altarev et al. - Test of Lorentz invariance with spin precession of ultracold neutrons - *Phys. Rev. Lett.* 103 (2009) 081602

## Astroparticules et Cosmologie

### AMS - CREAM - LSST

J. Grain et al. - Quantum bound states around black holes - *Eur. Phys. J. C* 53 (2008) 641-648

S. Alexeyev et al. - Kerr-Gauss-Bonnet black holes: exact analytical solution - *J. Exp. Theor. Phys.* 106 (2008) 709-713

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the leaky box model - *Astron. Astrophys.* 497 (2009) 991-1007

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T. Cailleteau et al. - Nonsingular ekpyrotic/cyclic model in loop quantum cosmology - *Phys. Rev. D* 80 (2009) 124013

### Planck - MIMAC

M. Bastero-Gil et al. - Nonlinear preheating with scalar metric perturbations - *Phys. Rev. D* 77 (2008) 023520

F.X. Désert et al. - Submillimetre point sources from the Archeops experiment: very cold clumps in the galactic plane - *Astron. Astrophys.* 481 (2008) 411-421

M.-A. Miville-Deschênes et al. - Separation of anomalous and synchrotron emissions using WMAP polarization data - *Astron. Astrophys.* 490 (2008) 1093-1102

A. Curto et al. - Constraints on the non-linear coupling parameter  $f_{nl}$  with the Archeops data - *Astron. Astrophys.* 486 (2008) 383-391

### AUGER - CODALEMA

O. Blanch Bigas et al. - Tau energy losses at ultra-high energy: continuous versus stochastic treatment - *Phys. Rev. D* 77 (2008) 103004

O. Blanch Bigas et al. - Ultrahigh energy tau neutrino flux regeneration while skimming the earth - *Phys. Rev. D* 78 (2008) 063002

D. Ardouin et al. - Geomagnetic origin of the radio emission from cosmic ray induced air showers observed by CODALEMA - *Astropart. Phys.* 31 (2009) 192-200

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Upper limit on the cosmic-ray photon flux above  $10^{19}$  eV using the surface detector of the Pierre Auger Observatory - *Astropart. Phys.* 29 (2008) 243-256

Upper limit on the diffuse flux of ultrahigh energy tau neutrinos from the Pierre Auger Observatory - *Phys. Rev. Lett.* 100 (2008) 211101

Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei - *Astropart. Phys.* 29 (2008) 188-204

Observation of the suppression of the flux of cosmic rays above  $4 \times 10^{19}$  eV - *Phys. Rev. Lett.* 101 (2008) 061101

Erratum to "Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei" [*Astroparticle Physics* 29(3) (2008) 188-204] - *Astropart. Phys.* 30 (2008) 45

Limit on the diffuse flux of ultra-high energy tau neutrinos with the surface detector of the Pierre Auger Observatory - *Phys. Rev. D* 79 (2009) 102001

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Atmospheric effects on extensive air showers observed with the Surface Detector of the Pierre Auger Observatory - *Astropart. Phys.* 32 (2009) 89-99

### MUNU

Z. Daraktchieva et al. - Low energy tracking and particles identification in the MUNU Time Projection Chamber at 1 bar: possible application in low energy solar neutrino spectroscopy - *J. Phys. G: Nucl. Part. Phys.* 35 (2008) 125107

### Physique hadronique et Matière nucléaire

#### GRAAL

A. Fantini et al. - First measurement of the  $\Sigma$  beam asymmetry in  $\eta$  photoproduction on the neutron - *Phys. Rev. C* 78 (2008) 015203

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## Interdisciplinaire

### Imagerie médicale

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### Plasmas - Matériaux - Nanostructures

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**J.-S. Réal** - Contenu étrange du nucléon - *Rapport d'activité IN2P3 2004-2006* p. 45

**D. Santos** - La mission spatiale Planck « Regarder vers l'aube du temps » - *Rapport d'activité IN2P3 2004-2006* p. 78

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## Analyse des publications et taux de citations

Analyse effectuée sur les publications (articles) au 1<sup>er</sup> janvier 2010. Les données sont issues de ISI Web of Knowledge Citation Report.

### Pour la période 1975-2010

Nombre de publications du laboratoire : 2658

Taux de citation moyen par article : 15,08 (13,62 en mars 2008)

h-index : 74 (63 en mars 2008)

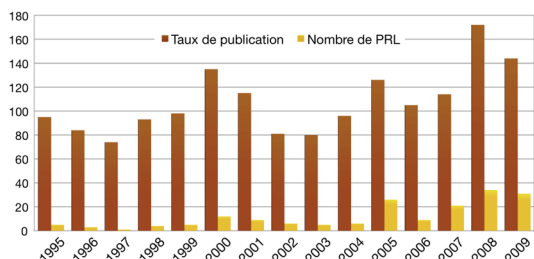
### Pour l'année 2006

Nombre de publications du laboratoire : 105

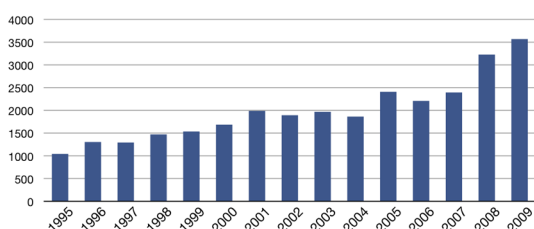
Taux de citation moyen par article : 13,89

h-index : 17

### Évolution du nombre de publications par année



### Évolution du nombre de citations par année



## Conférences données à l'invitation du comité d'organisation dans un congrès national ou international

### Quarks, leptons et symétries fondamentales

*Congrès général de la Société Française de Physique (SFP2009), Palaiseau, France, 6-10 juillet 2009*

**F. Malek** - Le défi informatique du LHC et le développement des grilles de calcul

### Astroparticules et Cosmologie

*TANGO in PARIS: Testing Astroparticle with the New GeV/TeV Observations. Positrons And electrons: Identifying the Sources, IAP, Paris, France, 4-6 mai 2009*

**L. Derome** - Current and future balloon and space experiments

*School on Particle Physics and Cosmology, Oran, Algeria, May 2-10 2009*

**L. Perotto** - Introduction to Cosmology

### Physique hadronique et Matière nucléaire

#### ALICE-JLab

*XVIII International School on Nuclear Physics, Neutron Physics and Applications, Varna, Bulgaria, 21-27 septembre 2009*

**E. Voutier** - Parton promenade into the nucleon

### Physique des réacteurs

*EPS/SFP Conférence « Énergie : un défi pour le 21<sup>e</sup> siècle », Les Houches, France, 2-5 juin 2008*

**H. Nifenecker** - Energy and environment

*Rencontres Jeunes Chercheurs 2009. Physique et Chimie Nucléaires: du Fondamental aux Applications !, École de physique, Les Houches, France, 4-9 janvier 2009*

**E. Merle-Lucotte** - Énergie nucléaire

*European Nuclear Physics Conference, Ruhr-Universität Bochum, Germany, March 16-20 2009*

**A. Bidaud** et al. - Nuclear energy of the future

*International Topical Meeting on Nuclear Research Applications and Utilization of Accelerators AccApp'09, Satellite Meeting European Fast Neutron Transmutation Reactor Projects (MYRRHA/Xt-ADS), Vienna, Austria, May 4-8 2009*

**A. Billebaud** et al. - GUINEVERE: Construction of a Zero-Power Pb ADS at Mol - Proc. à paraître (IAEA Proceedings Series)

## Théorie et phénoménologie

*Workshop on Hadronic Parity Violation, Madison, USA, June 30 - July 1<sup>st</sup> 2008*

**B. Desplanques** - Two-pion exchange parity-violating interaction: a review

**B. Desplanques** - Closing Remarks

*International Summer School and Conference on High Energy Physics: Standard Model and Beyond (ISSCSMB'08), Mugla, Akyaka, Turkiye, September 10-18 2008*

**S. Kraml** - Introduction to supersymmetry - *Proc à paraître (Springer)*

*DESY Theory Workshop 2008 "Dark Matter at the Crossroads", DESY, Hamburg, Germany, September 29 - October 2 2008*

**S. Kraml** - Dark matter and Collider Physics

*Ringberg Workshop New Trends in HERA Physics 2008, Ringberg Castle, Tegernsee, Germany, October 5-10 2008*

**E. Olness, I. Schienbein** - Heavy quarks: lessons learned from HERA and Tevatron - *Nuclear Physics B - Proc. Suppl. 191 (2009) 44-53*

**I. Schienbein et al.** - Nuclear parton distribution functions - *Nuclear Physics B - Proc. Suppl. 191 (2009) 25-34*

*Workshop on the Physics of Excited Nucleon (NSTAR2009), IHEP, Beijing, China, April 19 - 22 2009*

**J.-M. Richard et al.** - Model-independent constraints on spin observables

*The XXVII International Symposium on Lattice Field Theory (Lattice 2009), Beijing, China, July 25-31 2009*

**C. Alexandrou et al.** - Nucleon form factors with  $N_f=2$  dynamical twisted mass fermions

**V. Bertone et al.** - Kaon oscillations in the standard model and beyond using  $N_f=2$  dynamical quarks

*2nd France Asia Particle Physics School (FAPPS'09), Fujiyoshida, Japan, November 5-18 2009*

**S. Kraml** - Overview of theories beyond the Standard model

**S. Kraml** - Supersymmetry

## Pôle accélérateurs et sources d'ions

*Final CARE-HHH Workshop on Scenarios for the LHC Upgrade and Fair (HHH-2008), Chavannes-de-Bogis, Switzerland, November 24-25 2008*

**F. Méot** - Fixed field alternating gradient accelerators - overview, status - *Proc. CERN-2009-004 79-82*

*11<sup>th</sup> International Conference on Heavy Ion Accelerator Technology (HIAT09), Venezia, Italy, June 8-12 2009*

**T. Lamy** - Latest developments in ECR Charge Breeders - *Proc à paraître (JacoW)*

*Les Journées Accélérateurs de la SFP, Roscoff, France, 11-14 octobre 2009*

**M. Baylac** pour la collaboration GENEPI-3C - L'accélérateur GENEPI-3C pour le programme GUINEVERE

## Plasmas - Matériaux - Nanostructures

*10<sup>th</sup> International Workshop on Plasma-Based Ion Implantation & Deposition (PBII&D 2009), São José dos Campos, Brazil, September 7-11 2009*

**J. Pelletier et al.** - Distributed microwave plasmas with extended operating conditions: new opportunities for plasma-based ion implantation and deposition - *Proc à paraître (Surface and Coatings Technology)*

## Divers

*Indo-French Theme Meeting on high Power Accelerators Physics with Radioactive ion Beams Fuel Cycle and ADS Technologies, Bombay, India, July 9-11 2008*

**S. Kox** - Activities at LPSC-Grenoble related to the Nuclear Fuel Cycle and SPIRAL2 project

## Communications avec actes dans un congrès international

### Quarks, leptons et symétries fondamentales

#### ATLAS-ILC

*Lake Louise Winter Institute 2008, Lake-Louise, Alberta, Canada, February 18-23 2008*

**B. Brelier** - Higgs to gamma gamma in association with Z/W bosons - *Proc. à paraître (World Scientific)*

*XVI International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2008), London, England, April 7-11 2008*

**B. Martin** on behalf of CDF and D0 collaborations - Measurement of the forward-backward asymmetry in  $t\bar{t}$  production at the Tevatron - *Proc. on Line Proc. of the XVI International Workshop on Deep-Inelastic Scattering and Related topics ed. R. Devenish, J. Ferrando Science Wise Publishing 4p.*

*XIII International Conference on Calorimetry in High Energy Physics, INFN (Calor 2008), Pavia, Italy, May 26-30 2008*

**O. Igonkina et al.** - Calorimetry triggering in ATLAS - *Journal of Physics: Conference Series 160 (2009) 012061*

*Physics at LHC-2008, Split, Croatia, September 29 - October 4 2008*

**B. Clément** - Single top cross section measurements in ATLAS - *Proc. à paraître (Proc. of Science)*

*11<sup>th</sup> Topical Seminar on Innovative Particle and*

**Radiation Detectors (IPRD08), Siena, Italy, October 1- 4 2008**

**B. Trocmé** on behalf of the ATLAS collaboration - The Atlas Liquid Argon Calorimeter: commissioning with cosmic muons and first LHC beams - *Proc. à paraître (Nuclear Physics B (Proceedings Supplement))*

**International Linear Collider Workshop 2008 (LCWS08 and ILC08), University of Illinois, Chicago, USA, November 16-20 2008**

**G. Bélanger** et al. - Neutralino relic density in the CPVMSSM at the ILC - *Proc. on line à paraître*

**International Workshop on “Beyond the standard model Physics and LHC signatures (BSM-LHC)”, Boston, USA, June 2-4 2009**

**F. Ledroit-Guillon** - ATLAS prospects for early BSM searches - *Proc. à paraître.*

**11<sup>th</sup> Pisa Meeting on Advanced Detectors: Frontier Detectors for Frontier Physics, La Biodola, Isola D’Elba, Italy, May 24-30 2009**

**K. Krastev** - Test beam performance of the CALICE SiW electromagnetic calorimeter physics prototype - *Proc. à paraître (NIMA)*

**2009 Europhysics Conference on High Energy physics (HEP2009), Krakow, Poland, July 16-22 2009**

**J. Labbé** on behalf of the ATLAS Lar Calorimeter group - Commissioning of the ATLAS Liquid Argon Calorimeter

## UCN

**Flavor physics & CP Violation, National Taichan University, Taipei, Taiwan, May 5-9 2008**

**M. Kuzniak** et al. - An improved neutron electric dipole moment experiment - *Proc. On line 0806.4837*

**International Workshop on Particle Physics with Slow Neutrons, LPSC, Grenoble, France, 29-31 mai 2008**

**P. Schmidt-Wellenburg** et al. - Ultracold-neutron infrastructure for the gravitational spectrometer GRANIT - *Nucl. Instrum. Meth. A 611 (2009) 267-271*

**S. Baessler** et al. - Constraint on spin-dependent short-range interactions using gravitational quantum levels of ultracold neutrons - *Nucl. Instrum. Meth. A 611 (2009) 149-152*

**I. Altarev** et al. - Towards a new measurement of the neutron electric dipole moment - *Nucl. Instrum. Meth. A 611 (2009) 133-136*

**M. Kreuz** et al. - A method to measure the resonance transitions between the gravitationally bound quantum states of neutrons in the GRANIT spectrometer - *Nucl. Instrum. Meth. A 611 (2009) 326-330*

**E.V. Lychagin** et al. - Coherent scattering of slow neutrons at nanoparticles in particles physics experiments - *Nucl. Instrum. Meth. A 611 (2009) 302-305*

**R. Cubitt** et al. - Methods of observation of the centrifugal quantum states of neutrons - *Nucl. Instrum. Meth. A 611 (2009) 322-325*

**K. Bodek** et al. - Additional results from the first dedicated search for neutron-mirror neutron oscillations - *Nucl. Instrum. Meth. A 611 (2009) 141-143*

**16<sup>th</sup> International Seminar on Interaction of Neutrons with Nuclei: “Fundamental Interactions & Neutrons, Nuclear Structure, Ultracold Neutrons, Related Topics” (ISINN-16), Dubna, Russia, June 11-14 2008**

**V.V. Nesvizhevsky** et al. - Constraints on extra-short-range interactions from neutron scattering experiments - *Proc on line ISINN-16, Dubna, Russia, June 11-14, 2008 Frank Laboratory of Neutron Physics JINR (2008) p. 19*

**E.V. Lychagin** et al. - Storage of very cold neutrons in a trap with nano-structured walls - *Proc on line ISINN-16, Dubna, Russia, June 11-14, 2008 Frank Laboratory of Neutron Physics JINR (2008) p. 34*

## D0

**The XLIV<sup>th</sup> Rencontres de Moriond Electroweak Interactions and Unified Theories, La Thuile, Italy, March 7-14 2009**

**J. Stark** - W/Z boson properties, including W mass, at the Tevatron - *Proc. à paraître*

## Astroparticules et Cosmologie

### AMS-CREAM-LSST

**43<sup>e</sup> Rencontres de Moriond Cosmology 2008, La Thuile, Italy, March 15-22 2008**

**A. Barrau, J. Grain** - Holonomy corrections to the cosmological primordial tensor power spectrum - *Proc. à paraître*

**21<sup>st</sup> European Cosmic Ray Symposium (ECRS 2008), Kosice, Slovakia, September 9-12 2008**

**A. Putze** et al. - A Markov chain Monte Carlo for galactic cosmic ray physics: I. Method and results for the leaky box model - *Proc. à paraître*

**A. Putze** et al. - Third flight of the CREAM instrument - *Proc. à paraître*

**12<sup>th</sup> Marcel Grossmann Meeting (MG12), Paris, France, 12-18 juillet 2009**

**T. Cailleteau** - Influence of the loop quantum cosmology source term on the tensor power spectrum - *Proc. à paraître*

**A. Barrau** - Loop quantum gravity corrections to the propagation of primordial gravitational waves - *Proc. à paraître*

**A. Gorecki** - Using very high energy gamma-rays from active galactic nuclei to measure the Hubble parameter - *Proc. à paraître*

### Auger-CODALEMA

**XV International Symposium on Very high Energy Cosmic Ray Interactions ISVHECRI 2008, Paris, France, 1-6 septembre 2008**

**A. Bellétoile** and the CODALEMA collaboration - Measuring radio signals from showers - *Nuclear Physics B (Proc. Suppl) 196 (2009) 283-288*

**31<sup>st</sup> International Cosmic Ray Conference (ICRC 2009), Lodz, Poland, July 7-15 2009**

**C. Rivière** for the Codalema Collaboration - Radio emission of extensive air shower at CODALEMA: polarization of the radio emission among the  $\mathbf{v} \times \mathbf{B}$  vector - *Proc. à paraître*

**J. Abraham et al.** Pierre Auger Collaboration  
–Studies of cosmic ray composition and air shower structure with the Pierre Auger observatory  
The cosmic ray energy spectrum and related measurements with the Pierre Auger observatory  
Operations of and future plans for the Pierre Auger observatory  
Calibration and monitoring of the Pierre Auger observatory  
Astrophysical sources of cosmic rays and related measurements with the Pierre Auger observatory

**PLANCK-MIMAC**

**43<sup>e</sup> Rencontres de Moriond Cosmology 2008. La Thuile, Italy, March 15-22 2008**

**C. Renault** - The Planck mission and the scientific programme– *Proc. à paraître*

**Dark Energy and Dark Matter - Observations, Experiments and Theories, Lyon, France, 7-11 Juillet 2008**

**E. Mayet et al.** - MIMAC: a  $\mu$ TPC detector for non-baryonic dark matter search - EDP Sciences European Astronomical Society Publications Series 39 (2009) 263-268 Eds E. Pécontal et al.

**Identification of Dark Matter (idm2008), Alba-Nova, Stockholm, Sweden, August 18-22 2008**

**D. Santos** - MIMAC: a large micro-tpc for directional non-baryonic dark matter search - *Proc. à paraître PoS(idm2008) 022*

**24<sup>th</sup> International Conference on Nuclear Tracks in Solids, Bologna, Italy, September 1-5 2008**

**A. Alloua et al.** - Novel recoil nuclei detectors to qualify the AMANDE facility as a standard for mono-energetic neutron fields - *Radiation Measurements 44 (2009) 755-758*

**4<sup>th</sup> Symposium on Large TPC's for Low Energy Rare Event Detection, Institut Henri Poincaré, Paris, France, 18-19 décembre 2008**

**E. Mayet et al.** - Micromegas  $\mu$ TPC for direct dark matter search with MIMAC - *Journal of Physics: Conference Series 179 (2009) 012011*

**O. Guillaudin et al.** - Low energy measurements with helium Micromegas  $\mu$ TPC - *Journal of Physics: Conference Series 179 (2009) 012012*

**The XLIV<sup>th</sup> Rencontres de Moriond Electroweak Interactions and Unified Theories, La Thuile, Italy, March 7-14 2009**

**C. Grignon et al.** - Dark matter directional detection with MIMAC - *Proc. à paraître*

**1<sup>st</sup> International Conference on Micro Pattern Gaseous Detectors (MPGD2009), Kolympari, Crete, Greece, June 12-15 2009**

**C. Grignon et al.** - A prototype of a directional detector for non-baryonic dark matter search: MIMAC (Micro-TPC Matrix of Chambers) - *JINST 4 (2008) P11003*

**XXI<sup>es</sup> Rencontres de Blois « Windows on the Universe », Blois, France, 21-26 juin 2009**

**L. Fauvet** - Study of the polarized galactic emissions for the analysis of the PLANCK CMB data - *Proc. à paraître*

**12<sup>th</sup> Marcel Grossmann Meeting (MG12), Paris, France, 12-18 juillet 2009**

**E. Mayet** - Directional detection of Dark Matter - *Proc. à paraître*

**L. Perotto** - Cosmic microwave background lensing with the Planck mission - *Proc. à paraître*

**D. Girard** - Some systematic effects in the Planck temperature angular power spectrum compared to differences between several scenario of inflation - *Proc. à paraître*

**Physique hadronique et Matière nucléaire**

**GRAAL**

**4<sup>th</sup> Workshop on European Collaboration for Higher Education and Research in Nuclear Engineering and Radiological Protection (CHERNE-2008), Favignana, Italy, May 26-28 2008**

**G. Mandaglio et al.** - Vertex identification of events in photonuclear reactions by cylindrical multiwire proportional chambers - *Radiation Effects and Defects in Solid 164 (2009) 325-329*

**ALICE-JLab**

**27<sup>th</sup> International Workshop on Nuclear Theory, Rila, Bulgaria, June 23-28 2008**

**E. Voutier** - Deeply Virtual Compton Scattering Off Nuclei - *Proc. à paraître*

**18<sup>th</sup> International Symposium on Spin Physics (SPIN 2008), University of Virginia, Charlottesville, USA, October 6-11 2008**

**E. Voutier** - Generalized parton distributions, the hunt for quark orbital momenta - *AIP Conf. Proc. 1149 (2009) 161-167*

**A. El Alaoui** - Measurement of the contribution of strange quarks to the proton spin - *AIP Conf. Proc. 1149 (2009) 303-306*

**J. Dumas et al.** - Polarized positrons at Jefferson Lab - *AIP Conf. Proc. 1149 (2009) 1184-1188*

**International Workshop on Positrons at Jefferson Lab (JPOS09), Newport News, USA, March 25-27 2009**

**J. Dumas et al.** - A polarized positron source for CEBAF - *AIP Conference Proceedings 1160 (2009) 120-125*



## Structure Nucléaire

*Nuclear Physics and Astrophysics: From Stable Beams to Exotic Nuclei, Cappadocia, Turkey, June 25-30 2008*

J.M. Daugas et al. - Magnetic moment of  $^{43}\text{mS}$  - *AIP Conf. Proc.* 1072 (2008) 293-297

*4<sup>th</sup> International Workshop on Nuclear Fission and Fission-Product Spectroscopy (FISSION 2009), St Paul lez Durance, France, 13-16 mai 2009*

G.S. Simpson et al. (J. Genevey, J.-A. Pinston) - Two particle isomers and bands of  $^{154,156}\text{Nd}$ ,  $^{156,158}\text{Sm}$  - *AIP Conference Proceedings* 1175 (2009) 154-161

## Physique des Réacteurs

*11th International Conference on Radiation Shielding (ICRS-11) & 15th Topical Meeting of the Radiation Protection & Shielding Division of ANS (RPSD-2008), Pine Mountain, Georgia, USA, April 13-18 2008*

F. Michel-Sendis et al. - Neutronics of the MEGAPIE liquid PbBi spallation target: inner flux measures and simulations - *Nuclear Technology* 168 (2009) 322-327

*École Sels Fondus à Haute Température, Centre Paul Langevin, Aussois, France, 21-26 juin 2008*

D. Heuer - Les sels fondus dans le TMSR - *Sels fondus à haute température V. Ghetta et al. ed. Presses Polytechniques et Universitaires Romandes* (2009) ISBN 9782880748326 chp. 11

*International Conference on the Physics of Reactors "Nuclear Power: A Sustainable Resource" PHYSOR 08, Interlaken, Switzerland, September 14-19 2008*

J.N. Wilson et al. - Economy of uranium resources in a three-component reactor fleet with mixed thorium/uranium fuel cycles - *Proc. CD Rom log15 - Selected paper: Annals of Nuclear Energy* 36 (2009) 404-408

E. Merle-Lucotte et al. - Optimization and simplification of the concept of non-moderated thorium molten salt reactor - *Proc. CD Rom log355*

A. Bidaud et al. - Economics of symbiotic nuclear fleets at equilibrium - *Proc. CD Rom log543*

P. Baeten et al. - The GUINEVERE project at the VENUS facility - *Proc. CD Rom log315*

*2008 joint Symposium on Molten Salts, Kobe, Japan, October 19-23 2008*

X. Doligez et al. - Neutronic and radioactivity assessment for the non-moderated thorium molten salt reactor (TMSR-NM) reprocessing unit

*138<sup>th</sup> TMS Annual Meeting & Exhibition (TMS2009), San Francisco, California, USA, February 15-19 2009*

H. Duval et al. - Comments on the capture mechanisms and surface forces acting during liquid aluminum depth filtration - *Light Metals 2009*, G. Bearne ed. TMS (2009) ISBN 9780873397315 761-766

*Advances in Nuclear Fuel Management IV (ANFM IV), Hilton Head Island, S Carolina, USA, April 12-15 2009*

E. Merle-Lucotte et al. - Minimizing the fissile inventory of the molten salt fast reactor - *Proc. CD Rom*

*EFNUDAT Fast Neutrons - Scientific Workshop on Neutron Measurements, Theory & Applications, Geel, Belgium, April 28-30 2009*

G. Kessedjian et al. - Quasi-absolute neutron-induced fission cross section of  $^{243}\text{Am}$  - Variance-covariance analysis - *Proc à paraître (EUR Technical and Scientific Research series)*

*2009 International Conference on Advances in Mathematics, Computational methods, and Reactor Physics, Saratoga Springs, New York, USA, May 3-7 2009*

A. Bidaud et al. - Nuclear Data uncertainty analysis using the coupling of DRAGON with SUS3D - *Proc. à paraître (ANS)*

*International Topical Meeting on Nuclear Research Applications and Utilization of Accelerators AccApp'09, Vienna, Austria, May 4-8 2009*

J.C. David et al. - In-target yields for RIBS production with EURISOL - *Proc. à paraître (IAEA Proceedings Series)*

*Advancements in Nuclear Instrumentation, Measurement Methods and their Applications (ANIMMA 2009), Marseille, France, 7-10 juin 2009*

J.L. Lecouey et al. - Monitoring fast neutron sources for accelerator driven subcritical reactor experiment - *Proc à paraître*

A. Letourneau et al. - Recent developments on micro-metrics fission chambers for high neutron fluxes

*International Conference GLOBAL 2009 The Nuclear Fuel Cycle: Sustainable options & Industrial Perspectives, Paris, France, 6-11 septembre 2009*

A. Billebaud et al. - The GUINEVERE project for accelerator driven system physics - *Proc. on CD Rom paper 9414 1809-1815*

P. Guillemin et al. - Feasible ways to achieve high conversion in thorium-fueled CANDU and PWR reactors - *Proc. on CD Rom paper 9208 2734-2742*

N. Capellan et al. - 3D coupling of Monte Carlo neutronics and thermal-hydraulics calculations as a simulation tool for innovative reactor concepts - *Proc. on CD Rom paper 9274 1358-1367*

J. Brizi et al. - Sodium-Cooled Fast Reactors: Void Coefficient and Waste Minimization. Neutronic Studies using MURE - *Proc. on CD Rom paper 9205 1957-1966*

E. Merle-Lucotte et al. - Optimization of the burning efficiency and the deployment capacities of the molten salt reactor - *Proc. on CD Rom paper 9149 1864-1872*

L.M. Fallot et al. - Nuclear reactor simulations for unveiling diversion scenarios: capabilities of the anti-neutrino - *Proc. on CD Rom paper 9272 2206-2216*

X. Doligez et al. - Numerical tools for molten salt reactor simulation - *Proc. on CD Rom paper 9207 1631-1639*

A. Huguet et al. - Status of the development of an electrolytic device based on liquid metallis drops in molten salt media - *Proc. on CD Rom paper 9376 1144-1147*

### **Théorie et phénoménologie**

**43<sup>e</sup> Rencontres de Moriond Electroweak Interactions and Unified Theories. La Thuile, Italy, March 1-8 2008**

S Kraml - Susy dark matter - 2008 Electroweak Interactions and Unified Theories. Proceedings of the XLIII<sup>rd</sup> Rencontres de Moriond Series: Electroweak Interactions and Unified Theories, La Thuile, Aosta Valley, Italy, March 1-8 2008. J.-M. Frère et al. The Gioi Publishers (2008) 87-93

**43<sup>e</sup> Rencontres de Moriond QCD and High Energy Interactions. La Thuile, Italy, March 8- 15 2008**

I. Schienbein et al. - Parton distribution function uncertainties & nuclear corrections for the LHC - *Proc. à paraître*

**XVI International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2008), London, England, April 7-11 2008**

I. Schienbein et al. - Parton distribution function uncertainties & nuclear corrections for the LHC - Proc. on Line Proc. of the XVI International Workshop on Deep-Inelastic Scattering and Related topics ed. R. Devenish, J. Ferrando Science Wise Publishing 5p.

**Workshop on "High-energy photon collisions at the LHC", CERN, Geneva, Switzerland, April 22-25 2008**

M. Klasen - High-energy photon collisions at the LHC - dream or reality? - *Nuclear Physics B (Proc. Suppl.) 179-180 (2008) 298-309*

M. Klasen, J.P. Lansberg - Perspective for inclusive quarkonium production in photon-photon collisions at the LHC - *Nuclear Physics B (Proc. Suppl.) 179-180 (2008) 226-231*

**4<sup>th</sup> Workshop on the Implications of HERA for LHC Physics "HERA and the LHC", CERN, Geneva, Switzerland, May 26-30 2008**

M. Klasen, G. Kramer - Survival probability in diffractive dijet photoproduction - Proceedings of the Workshop HERA and the LHC, 2<sup>nd</sup> workshop series on the implications of the HEAR for LHC physics, 2006-2008, Hamburg - Geneva ed. H. Jung, A. De Roeck, ISBN 9783935702324, ISSN 14358077, DESY-PROC-2009-02, 460-469

Z.J. Ajaltouni et al. - Heavy flavour production at the LHC: theoretical aspects - Proceedings of the Workshop HERA and the LHC, 2<sup>nd</sup> workshop series on the implications of the HEAR for LHC physics, 2006-2008, Hamburg - Geneva ed. H. Jung, A. De Roeck, ISBN 9783935702324, ISSN 1435-8077, DESY-PROC-2009-02, 343-406

**XIII International Conference Selected Problems of Modern Theoretical Physics (SPMTP), Dubna, Russia, June 23-27 2008**

V. Mathieu et al. - The glueball spectrum from constituent gluon models - *Proc. à paraître (JINR Publishing Department)*

**10<sup>th</sup> International Workshop on Neutrino Factories, Super Beams and Beta Beams (Nufact08), Valencia, Spain, June 30 - July 5 2008**

I. Schienbein - NuSong: a hig-statistics, high-energy neutrino scattering experiment - *Proc. of Science PoS(Nufact08)068*

**Light Cone 2008 Relativistic Nuclear and Particle Physics, European Physical Society, Mulhouse, France, 7-11 juillet 2008**

B. Desplanques - Form factors in relativistic quantum mechanics: constraints from space-time translations - *Proc. of Science PoS(LC2008) 018*

**14<sup>th</sup> International Conference in Quantum Chromodynamics (QCD 08), Montpellier, France, 7-12 juillet 2008**

J.-M. Richard et al. - Constraints on spin observables - Nuclear Physics B - Proceedings Supplements 186 (2009) 78-81

**XXVI International Symposium on Lattice Field Theory Lattice 2008, Williamsburg, Virginia, USA, July 14-19 2008**

V. Drach et al. - Partially quenched study of strange baryon with Nf = 2 twisted mass fermions - *Proc. of Science PoS(LATTICE 2008) 123*

R. Baron et al. - The nucleon axial charge and lowest moment  $\langle \chi \rangle$  with Nf=2 dynamical twisted mass fermions - *Proc. of Science PoS(LATTICE 2008) 162*

C. Alexandrou et al. - Nucleon form factors with dynamical twisted mass fermions - *Proc. of Science PoS(LATTICE 2008) 139*

R. Baron et al. - Status of ETMC simulations with 2+1+1 twisted mass fermions - *Proc. of Science PoS(LATTICE 2008) 094*

**34<sup>th</sup> International Conference on High Energy Physics (ICHEP08), Philadelphia, USA, July 29-August 5 2008**

B. Herrmann - Flavour violation in gauge-mediated supersymmetry breaking models: experimental constraints and phenomenology at the LHC - SLAC's eConf Proceedings Archive (via arXiv) 0810.1209

K. Kovarik, B. Herrmann - Neutralino annihilation to quarks with SUSY-QCD corrections - SLAC's eConf Proceedings Archive (via arXiv) 0811.1441

**Quark Confinement and the Hadron Spectrum (Confinement8), Mainz, Germany, September 1-6 2008**

V. Mathieu et al. - The glueball spectrum from constituent gluon models - *Proc. of Science PoS(Confinement8) 084*

**5<sup>th</sup> Workshop on Critical Stability of Few-Body Systems, Ettore Majorana Centre for Scientific Culture, Erice, Sicily, Italy, October 13-17 2008**

**J. Vijande** et al. - Four-quark stability - *Few-Body Systems* 45 (2009) 99-103

**Excited QCD, Zakopane, Poland, February 8-14 2009**

**J.-M. Richard** - Steiner-tree and tetraquarks - *Proc. to be published in Acta Physica Polonica*

**Tenth Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2009), San Diego, California, USA, May 26-31 2009**

**J. Soffer** et al. - The relevance of positivity in spin physics - *Proc à paraître (AIP Conf. Proc.)*

**17<sup>th</sup> International Conference on Supersymmetry and the Unification of Fundamental Interactions (SUSY09), Boston, USA, June 5-10 2009**

**K. Kovarik** - Supersymmetric QCD corrections to dark matter annihilation - *Proc. à paraître*

**2009 Europhysics Conference on High Energy physics (HEP2009), Krakow, Poland, July 16-22 2009**

**J. Debove** - Transverse-momentum resummation for gaugino-pair production at hadron colliders

**The XXVII International Symposium on Lattice Field Theory (Lattice 2009), Beijing, China, July 25-31 2009**

**R. Baron et al. (V. Drach)** First results of ETMC simulations with  $N_f = 2+1+1$  maximally twisted mass fermions - *Proc. of Science POS(LAT2009)* 104

## Pôle accélérateurs et sources d'ions

**10<sup>th</sup> International Workshop on Neutrino Factories, Super Beams and Beta Beams (Nufact08), Valencia, Spain, 30 - July 5 2008**

**T. Thuillier** et al. - High frequency ECR source (60 GHz) in pre-glow mode for bunching of beta-beam isotopes - *Proc. of Science PoS(Nufact08)* 089

**18<sup>th</sup> International Workshop on ECR Ion Sources (ECRIS08), Chicago, Illinois, USA, September 15-18 2008**

**T. Thuillier** et al. - A 60 GHz electron cyclotron resonance ion source for pulsed radioactive ion beam production - *Proc. on Line JACOW TUCO-A03*

**T. Lamy** et al. - New configuration and results with the LPSC charge breeder - *Proc. on Line JACOW WECO-A01*

**F. Ames** et al. - Status of the ECRIS charge state breeding project at TRIUMF - *Proc. on Line JACOW WECO-A02*

**Particle Accelerator Conference (PAC09), Vancouver, Canada, May 4-8 2009**

**F. Ames** et al. - Acceleration of charge bred radioactive ions at TRIUMF - *Proc. on Line à paraître (JACOW)*

**13<sup>th</sup> International Conference on Ion Sources (ICIS'09), Gatlinburg, TN, USA, September 20-25 2009**

**T. Thuillier** et al. - Status report of the heavy ions source R&D for SPIRAL2 - *Proc. on Line à paraître (Rev. Sci. Instrumt)*

**F. Ames** et al. - Charge state breeding for the acceleration of radioactive ions at TRIUMF - *Proc. on Line à paraître (Rev. Sci. Instrumt)*

**P. Sortais** et al. - Ultra compact/ultra low power ECRIS for multi-purpose applications - *Proc. on Line à paraître (Rev. Sci. Instrumt)*

**XXIV Linear Accelerator Conference LINAC08, Triumf, Victoria, British Columbia, Canada, September 29 - October 3 2008**

**G. Devanz et al.** - Status of the low beat cryomodules for the SPIRAL2 linac - THP007

**International Topical Meeting on Nuclear Research Applications and Utilization of Accelerators AccApp'09, Vienna, Austria, May 4-8 2009**

**M. Baylac** et al. - The GENEPI-3C Accelerator for the GUINEVERE Project - *Proc. à paraître (IAEA Proceedings Series)*

## Interdisciplinaire

### Plasmas - Matériaux - Nanostructures

**1<sup>st</sup> International Conference on Negative Ions, Beams and Sources (NIBS 2008), Aix en Provence, France, 10-12 septembre 2008**

**S. Béchu** et al. - Production of H<sup>-</sup> ions by surface mechanisms in Cs-free multi-dipolar microwave plasma - *AIP Conf. Proc.* 1097 (2009) 74-83

**M. Bacal** et al. - Study of the plasma near the plasma electrode by probes and photodetachment in ECR-driven negative ion source - *AIP Conf. Proc.* 1097 (2009) 47-54

**17<sup>th</sup> International Colloquium on Plasma Processes (CIP09), Marseille, France, 22-26 juin 2009**

**A. Lacoste** et al. - Advances and drawbacks of microwave plasmas for surface processing

### Imagerie médicale - Services Techniques - Développements technologiques

**International Conference on Integrated Circuit Design and Technology, Minatec, Grenoble, France, 2-4 juin 2008**

**F. Rarbi, D. Dzahini** - A low power 12-bit and 30-MS/s pipeline analog to digital converter in 0.35 μm CMOS

**2008 IEEE Nuclear Science Symposium, Medical Imaging Conference and 16<sup>th</sup> Room Temperature Semiconductor Detector Workshop, Dresden, Germany, October 19-25 2008**

**F. Rarbi** et al. - A low power 12-bit and 25-MS/s pipelined ADC for the ILC/Ecal integrated readout - Nuclear Science Symposium Conference Record, 2008, NSS'08 IEEE ISBN 9781424427147 ISSN 1082-3654, 1506-1511



**17<sup>th</sup> International Conference on Computing in High Energy and Nuclear Physics (CHEP09), Prague, Czech Republic, March 21-27 2009**

**E. Luehring** et al. - Organization, management, and documentation of ATLAS offline software releases - *Proc. à paraître (J. of Physics: Conf. Series)*

**D. Malon** et al. - An integrated overview of metadata in ATLAS - *Proc. à paraître (J. of Physics: Conf. Series)*

**Topical Workshop on Electronics for Particle Physics (TWEPP-09), Paris, France - 21-25 septembre 2009**

**L. Gallin-Martell** et al. - Design of high dynamic range digital to analog converters for calibration of the CALICE readout electronics - *Proc. à paraître (CERN)*

**IEEE Nuclear Science Symposium Medical Imaging Conference, Orlando, Florida, USA, October 25-31 2009**

**E. Rarbi** on the behalf of the CALICE collaboration - A 12-bit 35MS/s Pipelined ADC with a dynamic element matching correction for ILC / CALICE Integrated Readout - *Proc. à paraître (CD Rom) IEEE*

## Communications avec actes dans un congrès national

### Astroparticules et Cosmologie

#### AMS-CREAM-LSST

**Colloque Forme et Origine de l'Univers Philosophie et Cosmologie, Lyon, France, 12-14 Octobre 2009**

**A. Barrau** - La cosmologie physique comme « manière de faire un monde » - physique, relativisme et irréalisme - *Proc à Paraître*

#### AUGER-CODALEMA

**Semaine de l'Astrophysique Française - Journées de la SFA2 2008, Paris, France, 30 juin - 4 juillet 2008**

**A. Bellétoile** and the Pierre Auger Collaboration - Autonomous radio detection of high energy cosmic rays at the Pierre Auger Observatory - *Proc. Online SFA2 website 167-170*

**K. Payet** for the Pierre Auger Collaboration - Upper limit on the diffuse flux of UHE tau neutrinos from the Pierre Auger Observatory - *Proc. Online SFA2 website 255-259*

#### PLANCK-MIMAC

**Journées de Rencontre Jeunes Chercheurs 2009, Barbaste, France, 29 novembre - 5 décembre 2009**

**D. Girard** - Analyse des données en temps du satellite Planck - *Proc. à paraître*

### Physique des réacteurs

**Convention SFEN 2008 « La gestion des matières nucléaires : défis et perspectives », Paris, France, 12-13 mars 2008**

**D. Greneche** et al. - Faut-il repenser au thorium ? - *RGN Revue Générale Nucléaire 3 (2008) 55-63*

**Rencontres Jeunes Chercheurs 2009. Physique et Chimie Nucléaires: du Fondamental aux Applications, École de physique, Les Houches, France, 4-9 janvier 2009**

**X. Doligez** et al. - Influence de l'unité de retraitement sur le comportement d'un TMSR

## Communications orales sans actes dans un congrès international ou national

### Quarks, leptons et symétries fondamentales

**3<sup>rd</sup> EGEE User Forum, Clermont-Ferrand, France, 11-14 février 2008**

**F. Malek** - Challenges and success of the HEP GRID *Top Physics Workshop. Tools, Analysis Models & Generators from the Tevatron to the LHC, Grenoble, France, 23-25 septembre 2008*

**J. Donini** - Prospects for single top cross section measurement at ATLAS with early data

**International Workshop 10-25 Years of D0 France. Standard Model, New Phenomena and Higgs Searches at the Tevatron, LPHNE, Paris, France, 13-14 octobre 2008**

**A. Lucotte** - Top @ LHC

**J. Stark** - W-mass @ Tevatron

**Congrès Général de la Société Française de Physique (SFP2009), Palaiseau, France, 6-10 juillet 2009**

**J. Labbé** - Mesurer l'infiniment petit: l'expérience ATLAS au LHC, Présentation de la calorimétrie électromagnétique

**Rencontres des Particules 2008, Annecy-le-Vieux, France, 23-25 janvier 2008**

**G. Pignol** et al. - Neutron scattering and extra interactions in the range between 1pm and 5nm

**Ultra Cold and Cold Neutrons Physics and Sources, St Petersburg, Russia, June 8-14 2009**

**S. Roccia** - Results from UCN/199Hg clock comparison experiment

**Réunion D0 France, Grenoble, France, 23-24 juin 2008**

**B. Martin** - Mesure de la section efficace  $\sigma(pp \rightarrow tt \rightarrow e^+e^-)$  en p17



## Astroparticules et Cosmologie

*Journées PNC/PNG 08, Paris, France, 31 mars 2008*

**J. Grain, A. Barrau** - La gravité quantique et spectre de puissance primordial

*Workshop on Gravitational Waves and High Energy Neutrinos, APC, Paris, France, 18-20 may 2009*

**K. Payet** - Ultra high energy neutrinos at the Pierre Auger observatory

*2nd LSM-Extension Workshop, LSM, Modane, France, 16 octobre 2009*

**D. Santos** - MIMAC CYGNUS Directional dark matter detection

*Questions de Physique, Conférence d'Intérêt Général «SFP», Grenoble, France, 2 décembre 2009*

**D. Santos** - La mission PLANCK (ESA) Un regard sur les origines de l'univers

## Physique hadronique et Matière nucléaire

*Nuclear Medium Effects on the Quark and Gluon Structure of Hadron, ECT Meetings, Trento, Italy, June 3-7 2008*

**E. Voutier** - Nuclear deeply virtual Compton scattering studies at the Jefferson laboratory

*Hard Probes 2008, 3<sup>rd</sup> International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (HP08), Illa da Toxa, Spain, June 8-14 2008*

**G. Martinez-Garcia et al.** - Consequences of a  $\Lambda_c/D$  enhancement effect on the non-photonic electron nuclear modification factor in central heavy ion collisions at RHIC Energies

*Workshop for Young Scientists on the Physics of Ultrarelativistic Nucleus-Nucleus Collisions Hot Quarks 2008, Aspen Lodge, Colorado, USA, August 18-23 2008*

**G. Martinez-Garcia et al.** - Consequences of a  $\Lambda_c/D$  enhancement effect on the non-photonic electron nuclear modification factor in central heavy ion collisions at RHIC Energies

*Rencontres QGP-France-08, Etretat, France, 15-18 septembre 2008*

**C. Furget** - Status ALICE/EMCal

*European Nuclear Physics Conference, Ruhr-Universität, Bochum, Germany, March 16-20 2009*

**J.-S. Réal** for the G0 collaboration - The strangeness of the proton measured by the G0 parity violation experiment at Jefferson Laboratory

*PosiPol 2009 Workshop, Lyon, France, 23-26 juin 2009*

**E. Voutier et al.** - Polarized electrons for polarized positrons

*8<sup>th</sup> European Research Conference on Electromagnetic Interactions with Nucleons and Nuclei (EINN2009), Milos Island, Greece, September 27 - October 2 2009*

**C. Furget** - Nucleon strange form factors in parity violating electron scattering (G0)

## Physique des réacteurs

*3<sup>e</sup> École Énergies et Recherches, Fréjus, France, 9-14 mars 2008*

**P. Guillemin** - Étude neutronique de réacteurs à eau évolués pour des taux de conversion élevés

*European Nuclear Physics Conference, Ruhr-Universität, Bochum, Germany, March 16-20 2009*

**F. Yerma, A. Nuttin** - The Nucifer experiment: reactor antineutrino detection for reactor monitoring

*NEA JEFF/EFF Meeting, Manchester, UK, June 3-5 2009*

**G. Kessedjian** - Minor actinide fission measurements, experience with the building of experimental covariance matrices

**A. Bidaud** - Uncertainty Analysis in Modelling PWR using the coupling of DRAGON and SUS3D

## Interdisciplinaire

*Workshop of the French-Korea Particle Physics Laboratory (FKPPL), Villeurbanne, France, 25-27 février 2009*

**J. Collot** - Hadrontherapy

## Théorie et phénoménologie

*1<sup>st</sup> France-China Particle Physics Laboratory Workshop (FCPPL), CPPM, Marseille, France, 14-18 janvier 2008*

**M. Klasen** - Theoretical particle physics in China and France. QCD, bound states, and the physics beyond the SM

*International Workshop on "Perspectives and challenges for full QCD lattice calculations", Trento, Italy, May 5-9 2008*

**M. Brinet** - Lattice QCD results for baryons in twisted mass approach

*5<sup>th</sup> Workshop on Critical Stability of Few-Body Systems, Ettore Majorana Centre for Scientific Culture, Erice, Sicily, October 13-17 2008*

**J.-M. Richard** - Proof of stability of tetraquarks in a minimal-path model of linear confinement

*ENTApP Dark Matter Workshop 2009, CERN, Geneva, Switzerland, February 2-6 2009*

**S. Kraml et al.** - Neutralino relic density from ILC measurements in the CPV MSSM

*From the LHC to a future Collider, CERN, Geneva, Switzerland, February 9-27 2009*

S. Kraml - CP phases in SUSY

*Planck 2009 From the Planck Scale to the Electroweak Scale, Padova, Italy, May 25-29 2009*

S. Kraml - Phenomenology of supersymmetric gauge-Higgs unification

*Rencontres QGP-France 2009, Etretat, France, 15-18 septembre 2009*

I. Schienbein - Nuclear PDFs at the LHC

*Journées de Physique Théorique, CTP, Grenoble, France, 24-25 novembre 2009*

M. Papinutto - Lattice QCD and Flavor physics

V. Drach - Baryon properties from lattice QCD

R. Bonciani - Collider physics and precision calculations

S. Kraml - Supersymmetry and grand unification

*International Mini-Workshop "Journey in Hadron Physics", LPTA, Montpellier, France, December 4 2009*

V. Drach - Light baryons from lattice

*Les Journées Thématiques de l'IPN D'Orsay, IPNO, Orsay, France, 11 décembre 2009*

J. Carbonell - Évolution des moyens de calcul scientifique en France et leur utilisation pour les calculs sur réseau

## Pôle accélérateurs et sources d'ions

*SPIRAL2 Week 2009, Caen, France, 26-29 janvier 2009*

T. Lamy, J. Angot - Booster (ECR charge breeding)

T. Thuillier - High intensity heavy ion source for SPIRAL2

## Interdisciplinaire

### Plasmas-Matériaux-Nanostructures

*Cinétique des Plasmas, Recherche et Applications, 3<sup>e</sup> édition (CiPRA3), Le Havre, France, 2-4 avril 2008*

M. Rayar et al. - Étude d'un plasma micro-onde d'hydrogène en configuration matricielle pour application potentielle au dépôt de diamant sur grande surface

*Workshop of the French-Korea Particle Physics Laboratory (FKPPL), Villeurbanne, France, 25-27 février 2009*

J. Pelletier - Cooperation with Korea on distributed microwave plasma reactors for surface processing applications in industry

## Services Techniques - développements technologiques

*Sixièmes Journées Informatique IN2P3-IRFU, Obernai, France, 29 septembre -2 octobre 2008*

F. Lambert - Les systèmes d'authentification et d'autorisation dans AMI

B. Bouterin - Projet ECOCLIM. Refroidissement des salles informatiques du LPSC

*Réunion des sites LCG-France, LPSC, Grenoble, France, 27-28 novembre 2008*

C. Gondrand - Le site Tier-3 du LPSC

## Communications par affiche dans un congrès international ou national

### Quarks, leptons et symétries fondamentales

#### ATLAS-ILC

*11<sup>th</sup> Pisa Meeting on Advanced Detectors: Frontier Detectors for Frontier Physics, La Biodola, Isola D'Elba, Italy, May 24-30 2009*

K. Krastev - A large scale prototype for a SiW electromagnetic calorimeter for the ILC - EUDET module

#### UCN

*16<sup>th</sup> International Seminar on Interaction of Neutrons with Nuclei: "Fundamental Interactions & Neutrons, Nuclear Structure, Ultracold Neutrons, Related Topics" (ISINN-16), Dubna, Russia, June 11-14 2008*

S. Roccia - A mercury comagnetometer for the nEDM experiment

#### D0

*34<sup>th</sup> International Conference on High Energy Physics (ICHEP08), Philadelphia, USA, July 29 - August 5 2008*

B. Martin - Search for charged Higgs bosons in top quark decay at D0

### Astroparticules et Cosmologie

#### AUGER-CODALEMA

*XV International Symposium on Very high Energy Cosmic Ray Interactions (ISVHECRI 2008), Paris, France, 1-6 Septembre 2008*

O. Blanch Bigas et al. - On the propagation of skimming UHE tau leptons and tau neutrinos - *Nuclear Physics B (Proc. Suppl)* 196 (2009) 418-421

*Semaine de l'Astrophysique Française - Journées de la SFA2 2008, Paris, France, 30 juin - 4 juillet 2008*

A. Belletoile - Radio-détection of UHECR by the CODALEMA experiment

*Cosmic Ray International Seminar. Origin, Mass Composition and Acceleration Mechanisms of UHECRs, Malfa, Salina Island, September 15-19 2008*

O. Blanch Bigas et al. - The propagation of ultra-high energy tau leptons and neutrinos while skimming the earth - *Nuclear Physics B (Proc. Suppl)* 190 (2009) 144-149

**31<sup>st</sup> International Cosmic Ray Conference (ICRC 2009), Lodz, Poland, July 7-15 2009**

**C. Rivière** et al. - Radio emission AIREs: results and parameterization

## PLANCK-MIMAC

**Dark Energy and Dark Matter - Observations, Experiments and Theories, Lyon, France, 7-11 juillet 2008**

**A. Trichet** et al. - MIMAC: detection of low energy recoils for dark matter search - *EDP Sciences European Astronomical Society Publications Series 39* (2009) 321-322 eds E. Pécontal et al

**Congrès Général de la Société Française de Physique (SFP2009), Palaiseau, France, 6-10 juillet 2009**

G. Bernard et al. - MIMAC: un détecteur gazeux directionnel de matière noire

## Physique hadronique et Matière nucléaire

### ALICE-JLAB

**Workshop on Sources of Polarized Electrons and High Brightness Electron Beams (PESP2008), Jefferson Lab, Newport News, USA, October 1- 3 2008**

**J. Dumas** et al. - Polarized positron source at JLab

**Quark Matter 2009 The 21<sup>st</sup> International Conference on Ultrarelativistic Nucleus-Nucleus Collisions, Knoxville, Tennessee, USA, March 30 - April 4 2009**

**M. Heinz** et al. - The Alice EMCAL

## Structure Nucléaire

**International Conference EURORIB'08, Giens, France, 9-13 juin 2008**

**G. Simpson** - Nuclear Structure Studies using Low-Energy Fission - Recent Results from the <sup>132</sup>Sn and <sup>78</sup>Ni regions and Future Prospects

## Physique des réacteurs

**Advancements in Nuclear Instrumentation, Measurement Methods and their Applications (ANIMMA 2009), Marseille, France, 7-10 juin 2009**

**S. Chabod**, A. Letourneau - Improvements in the modeling of micro fission chambers operated in current mode

## Interface Physique-Biologie - Tomographie

**5<sup>th</sup> IEEE International Symposium on Biomedical Imaging: From Nano to Macro (ISBI 2008), Paris, France, 14-17 mai 2008**

**Y. Grondin** et al - Simulation results of a small animal liquid xenon PET detector - **5<sup>th</sup> IEEE International Symposium on Biomedical Imaging: From Nano to Macro, 2008. ISBI 2008, ISBN 9781424420025 1227-1230**

**11<sup>th</sup> European Particle Accelerator Conference EPAC 08, Genoa, Italy, June 23-27 2008**

**O. Bourrion** et al. - LLRF Electronics for the CNAO Synchrotron - *Proc. On Line JacoW 1392-1394 TUPC139*

**M.-E. Angoletta** et al. - CERN PSB Beam Tests of CNAO Synchrotron's Digital LLRF - *Proc. On Line JacoW 1431-1433 TUPC154*

**TWEPP-08 Topical Workshop on Electronics for Particle Physics, Naxos, Greece, September 15-19 2008**

**C. Vescovi** et al. - LLRF electronics for the CNAO synchrotron

**2008 IEEE Nuclear Science Symposium, Medical Imaging Conference and 16<sup>th</sup> Room Temperature Semiconductor Detector Workshop, Dresden, Germany, October 19-25 2008**

**M. Dahoumane** et al. - A very low power and low signal 5bit 50MSample/s double sampling pipelined ADC for monolithic active pixel sensors in high energy physics and biomedical imaging applications - *Nuclear Science Symposium Conference Record 2008 IEEE ISSN 1082-3654 7 2091-2097*

**P. Descourt** et al. - Performance assessment of a variable field of view and geometry PET animal scanner based on CdTe strip detector blocks - *Nuclear Science Symposium Conference Record 2008 IEEE ISSN 1082-3654 7 4559-4561*

## Théorie et phénoménologie

**17<sup>th</sup> International Conference on Computing in High Energy and Nuclear Physics (CHEP09), Prague, Czech Republic, March 21-27 2009**

**G. Grosdidier** et al. - The PetaQCD project

## Pôle accélérateurs et sources d'ions

**Final EURISOL Town Meeting, Pisa, Italy, March 30 - April 1<sup>st</sup> 2009**

**L. Latrasse** - 60 GHz electron-cyclotron-resonance (ECR) ion source prototype: calculus of the magnetic structure and CAD Design

**13<sup>th</sup> International Conference on Ion Sources (ICIS'09), Gatlinburg, TN, USA, September 20-25 2009**

**L. Latrasse** et al. - A 60 GHz CUSP ECRIS for beams - Proc à paraître (RSI)

**International Conference EURORIB'08, Giens, France, 9-13 juin 2008**

**R. Ferdinand** et al. - SPIRAL2 superconducting linac

**11<sup>th</sup> European Particle Accelerator Conference EPAC 08, Genoa, Italy, June 23-27 2008**

C. Ohmori et al. - High field gradient RF system for a SPIRAL FFAG, RACCAM - MOPPI02 - *Proc. On Line JacoW* 793-795

J. Fourrier et al. - Variable energy protontherapy FFAG accelerator - *Proc. On Line JacoW* 1791-1793 TUPP115

D.J. Kelliher et al - Muon decay ring study - *Proc. On Line JacoW* 2770-2772 WEPP116

T.R. Edgecock et al. - EMMA - The world's first non-scaling FFAG - *Proc. On Line JacoW* 3380-3382 THPP004

J. Pasternak et al. - Acceleration in SPIRAL FFAG using field map data - *Proc. On Line JacoW* 3515-3517 THPP068

**XXIV Linear Accelerator Conference LINAC08, Triumph, Victoria, British Columbia, Canada, September 29 - October 3 2008**

Y. Gomez Martinez et al. - Last SPIRAL2 10kW CW RF coupler design - *Proc. On Line JacoW* THP076

R. Ferdinand et al. - The SPIRAL2 superconducting linac - *Proc. On Line JacoW* MOP053

**Particle Accelerator Conference (PAC09), Vancouver, Canada, May 4-8 2009**

C. Ohmori et al. - RF System for RACCAM FFAG - TU5PFP026

J.-M. De Conto et al. - GENEPI-3C, a versatile neutron generator for the GUINEVERE ADS feasibility studies - TU6PFP028

F. Méot et al. - Periodic parameter tracking using the measured magnetic field maps of the RACCAM SPIRAL FFAG magnet - FR5REP094

D. Neuvéglise, F. Méot - An alternative design for the RACCAM magnet with distributed conductors - FR5REP095

M.J. Leray et al. - Magnetic measurements of the RACCAM prototype FFAG dipole - FR5REP110

Y. Giboudot, F. Méot - Optical matching of EMMA cell parameters using field map sets - TH5PFP040

## Interdisciplinaire

### Plasmas - Matériaux - Nanostructures

**X<sup>e</sup> Congrès de la Division Plasmas de la Société Française de Physique (SFP), Paris, France, 19-21 mai 2008**

M. Bacal et al. - Distribution spatiale du plasma au voisinage de l'électrode-plasma d'une source d'ions négatifs **19<sup>th</sup> ESCAMPIG, Grenade, Spain, July 15-19 2008**

M. Bacal et al. - Distribution of H<sup>-</sup> ions in the vicinity of the extraction aperture

## Services Techniques - Développements technologiques

**17<sup>th</sup> International Conference on Computing in High Energy and Nuclear Physics (CHEP09), Prague, Czech Republic, March 21-27 2009**

S. Albrand et al. - The ATLAS metadata interface

**Topical Workshop on Electronics for Particle Physics (TWEPP-09), Paris, France - September 21-25 2009**

F. Rarbi et al. - A digitally calibrated 12 bits 35 MS/s pipelined ADC with a 32 input multiplexer for CALICE integrated readout - *Proc. à paraître (CERN)*

**IEEE Nuclear Science Symposium Medical Imaging Conference, Orlando, Florida, USA, October 25-31 2009**

O. Rossetto et al. - Integrated electronic for a CdTe based pet system - *Proc. à paraître (CD Rom) IEEE*

## Rapports

G. Aad et al. (S. Albrand, M.-L. Andrieux, B. Brelier, B. Clément, J. Collot, S. Crépé-Renaudin, P.-A. Delsart, J. Donini, J.-Y. Hostachy, J. Labbé, F. Ledroit-Guillon, A. Lleres, A. Lucotte, F. Malek, J. Morel, J. Stark, B. Trocmé) ATLAS Collaboration - Expected performance of the ATLAS experiment. Detector, trigger and physics - CERN-OPEN-2008-020 ISBN 978-92-9083-321-5

F. Malek - Le calcul scientifique des expériences LHC. La grille de calcul LCG

P. Cortese et al. (O. Bourrion, C. Furget, S. Gadrat, R. Guernane, S. Kox, J.-S. Réal) - ALICE Electromagnetic Calorimeter Technical Design Report - CERN-LHCC-2008-014

J. Dumas, J. Grames, E. Voutier - Upper limit of the electron beam energy at the CEBAF 2D injector spectrometer and its functionality - JLAB-TN-08-086

R. Brissot, M. Heusch - Mesures de cibles irradiées auprès du réacteur Silène

T. Planche et al. (J. Fourrier, F. Méot) - Design of the RACCAM magnet prototype

J. Scott Berg - Dynamics in a SPIRAL FFAG with tilted cavities

F. Méot et al. - A study of the effects of defects in the triangle muon storage ring

J.-M. De Conto, J.-M. Carretta, Y. Gomez-Martinez, R. Micoud - Development of side coupled cavities - CARE-Report-2008-011-HIPPI

S. Ramberger, P.-E. Bernaudin, J.-M. De Conto, D. Marchand, E. Vernay, M. Vretenar - Design and manufacturing of a DTL prototype power coupler - CARE-Report-2008-009-HIPPI

O. Bourrion, B. Boyer - Développement d'un module NIM « trigger » de logique programmable

O. Bourrion, C. Vescovi - Architecture et conception électronique de la carte nEDM

C. Adloff et al. (D. Dzahini, L. Gallin-Martel, J. Giraud, D. Grondin, J.-Y. Hostachy, K. Krastev, L. Morin, F.-E. Rarbi) CALICE Collaboration - Report to the DESY PRC



## Ouvrages scientifiques, Chapitres d'ouvrages scienti- fiques, Directions d'ouvrages

### Ouvrages

**M. Klasen**, Mécanique quantique relativiste, Dunod (2009) Coll. Sciences- Sup

### Chapitres d'ouvrages

**T.V. Tran, S. Béchu, A. Bès, L. Latrasse, A. Lacoste, J. Pelletier**, Des sources plasma micro-onde dipolaires aux plasmas matriciels dans Plasmas Froids - Systèmes et procédés, ed. Th. Belmonte Publications de l'Université de Saint-Étienne (2008) Coll. Intégrations ISBN 9782862724775 85-121

**M. Allibert** - Thermodynamique chimique - Sels fondus à haute température - ed. V. Ghetta et al. Presses Polytechniques Universitaires Romandes (2009) ISBN 9782880748326 chp 2

**D. Heuer, E. Merle-Lucotte, X. Doligez** - Le réacteur à sels fondus MSFR - Sels fondus à haute température - ed. V. Ghetta et al. Presses Polytechniques Universitaires Romandes (2009) ISBN 9782880748326 chp11

**M. Allibert, V. Ghetta** - Extraction liquide-liquide – Sels fondus à haute température - ed. V. Ghetta et al. Presses Polytechniques Universitaires Romandes (2009) ISBN 9782880748326 chp12

**D. Heuer, E. Merle-Lucotte** - Un concept innovant : les réacteurs à sels fondus - La Science au Présent 2009, complément annuel scientifique de l'Encyclopaedia Universalis (2009) 140-146

**M. Bartelmann et al (J.-F. Macias-Perez)** - Fundamental cosmological observations and data interpretation - Questions of modern cosmology. Galileo's legacy, ed. M. D'Onofrio, C. Burigana, Springer (2009) ISBN 9783642007910 7-202

**M. Bartelmann et al (J.-F. Macias-Perez)** - Next challenges - Questions of modern cosmology. Galileo's legacy, ed. M. D'Onofrio, C. Burigana, Springer (2009) ISBN 9783642007910 429-502

### Directions d'ouvrages

**G. Bélanger et al. (S. Kraml)**, La Physique du TEV aux Collisionneurs, Proceedings of the Workshop Physics at TeV Colliders, Les Houches 2007, June 11-29 2007, IN2P3 (2008)

**D. D'Enterria et al. (M. Klasen)**, Proceedings of the International Workshop on High-Energy Photon Collisions at the LHC, CERN, Geneva, Switzerland, April 22-28 2008, Elsevier Nuclear Physics B - Proc. Suppl. 179-180 (2008)

**V. Ghetta et al.**, Materials Issues for Generation IV Systems. Satus, Open Questions and Challenges, Cargese, France, September 24-October 6 2007,

Springer (2008) NATO Science for Peace and Security Series - B: Physics and Biophysics, ISBN 9781402084218

**A.S. Jensen, A. Kievsky, J.-M. Richard, L. Wiesenfeld**, Proc. Of the Workshop on the Critical Stability of Few-Body Quantum Systems, Erice, Sicily, Italy, October 1-18 2008, Springer Few-Body Systems 45 (2009)

**V. Ghetta, J. Fouletier, P. Taxil (ed.)** - Sels fondus à haute température - Presses Polytechniques Universitaires Romandes (2009) ISBN 9782880748326

**L. Elouadrhiri et al. (E. Voutier) (ed.)** - International Workshop on Positrons at Jefferson Lab (JPOS09), Newport News, USA, March 25-27 2009 - AIP Conference Proceedings 1160 (2009) ISBN 9780735406971

**T. Soldner et al. (K. Protasov)** - Particle Physics with Slow Neutrons, ILL, Grenoble, France, 29-31 May 2009 - Nucl. Instrum. Meth. A 611 (2009)

## Thèses

- B. Brelier - Étude de la production associée ZH/WH, H en photons avec le détecteur ATLAS - 9 décembre 2008 - Dir. F. Malek
- J. Fourrier - Les accélérateurs à champ fixe et gradient alterné FFAG et leur application médicale en protonthérapie - 17 octobre 2008 - Dir. F. Méot
- B. Herrmann - Phénoménologie d'annihilation de matière noire et de violation non-minimale de la saveur dans le MSSM - 10 septembre 2008 - Dir. M. Klasen
- M. Koo - Effets de température dans les procédés de gravure plasma : Aspects fondamentaux et applications - 22 décembre 2008 - Dir. J. Pelletier
- B. Martin Dit Latour - Mesure de la section efficace de production de paires de quarks top dans l'état final di-électron avec les données collectées par l'expérience D0 au Run IIa - 29 septembre 2008 - Dir. G. Sajot
- J. Morel - Recherche d'une nouvelle résonance  $Z'$  dans le canal diélectron avec le détecteur ATLAS - 7 novembre 2008 - Dir. F. Ledroit
- Y. Sallaz-Damaz - Un imageur Cherenkov pour la mesure de charge des éléments du rayonnement cosmique nucléaire - 29 octobre 2008 - Dir. M. Buénerd
- P. Guillemin - La recherche de hauts taux de conversion en cycle thorium - 4 décembre 2009 - Dir. R. Brissot, A. Nuttin
- J. Labbé - Préparation de l'expérience ATLAS : Étalonnage électronique du calorimètre électromagnétique, Mesure de la polarisation des bosons W dans la décroissance des quarks top - 1<sup>er</sup> juillet 2009 - Dir. J. Collot, B. Trocmé
- M. Marie-Jeanne - Investigation des performances d'un élévateur de l'état de charge par ECR à ISOLDE : une étude du scénario  $1+ n+$  pour les installations ISOL de la prochaine génération - 26 février 2009 - Dir. A. Lacoste
- K. Payet - L'étude des neutrinos de ultra haute énergie à l'observatoire Pierre Auger - 7 octobre 2009 - Dir. F. Montanet
- G. Pignol - Préparation de l'expérience GRANIT et recherche de nouvelles interactions avec les neutrons - 18 juin 2009 - Dir. K. Protasov
- A. Putze - Phénoménologie et détection du rayonnement cosmique nucléaire - 25 septembre 2009 - Dir. M. Buénerd, L. Derome
- C. Rivière - Des signaux radio aux rayons cosmiques - 17 décembre 2009 - Dir. D. Lebrun, J. Chauvin
- S. Rocca - La co-magnétométrie mercure pour la mesure du moment électrique dipolaire du neutron : optimisation et application au test de l'invariance de Lorentz - 30 septembre 2009 - Dir. G. Quémener, D. Rebreyend
- M. Versteegen - G0 : Mesure de la contribution étrange à la structure électromagnétique du nucléon - 8 octobre 2009 - Dir. C. Furget, S. Kox

## Habilitation à Diriger des Recherches

- A. Billebaud - Physique des réacteurs auprès de systèmes sous-critiques pilotés par accélérateur : mesure en ligne de la réactivité - 17 juin 2008
- L. Derome - Production et propagation de particules secondaires au voisinage de la Terre - 21 janvier 2008
- D. Dzahini - Du préamplificateur au convertisseur, les défis de la micro-électronique auprès des grands détecteurs de physique - 20 octobre 2008
- E. Merle-Lucotte - Le cycle Thorium en réacteurs à sels fondus peut-il être une solution au problème énergétique du XXI<sup>e</sup> siècle ? Le concept de TMSR-NM - 27 juin 2008
- B. Trocmé - L'expérience ATLAS au LHC - 16 décembre 2009

## Distinctions

- S. Albrand - Cristal CNRS - 2008
- A. Barrau - Nomination à l'Institut Universitaire de France (IUF) - 2009
- A. Billebaud - Prix Thibaud - 2008
- M. Buénerd - Éméritat - 2008
- F. Mayet, F. Melot - Prize for the Highest Cited Paper in Physics in Medicine & Biology, The Rotblat medal - 2009