

João Carlos Arnauth Pela

CONTACT INFORMATION	Trav. do Pregoeiro n°24, 3° Esq. 1600-588 Lisboa Portugal	Voice: (351) 916486498 E-mail: joaopela@gmail.com WWW: www.nfist.pt/~pela
CITIZENSHIP	Portuguese	
RESEARCH INTERESTS	Particle Physics, High Energy Physics, Nuclear Fusion, Detector Physics, Instrumentation	
EDUCATION	Instituto Superior Técnico , Lisboa, Portugal M.S., Engineering Physics and Technology (expected graduation date: June 2010) <ul style="list-style-type: none">• Current grade average of 17.1 (in 20)• Thesis Topic: Extra Dimensions Searches at the Large Hadron Collider• Supervisor: Professor João Varela• Co-Supervisor: Michele Gallinaro• Area of Study: Experimental Particle Physics B.S., Engineering Physics and Technology, Feb 2009 <ul style="list-style-type: none">• With final grade of 14 (in 20)• Engineering specialization (emphasis on Instrumentation)	
ACADEMIC EXPERIENCE	Instituto Superior Técnico , Lisboa, Portugal <i>Graduate Student</i> Feb 2009 to present <i>Undergraduate Student</i> September 2002 to February 2009 NFIST (IST Physics Students Association) Member September 2002 to present <ul style="list-style-type: none">• Development and implementation of School Registration Web Application for <i>Physics Week 11</i> and <i>Physics Week 12</i> at IST• Development and implementation of Members Management Application for NFIST• Development and implementation of an integrated system of mailing lists, library and forum• Responsible for many activities over the years• Responsible and developer of many activities Web Sites (Social activities and outreach). National Physics Students Meeting 2008 <ul style="list-style-type: none">• Member of the organization committee• Development and implementation of all the website's applications, including Student Registration, Forum, News Portal.	
PUBLICATIONS	<ul style="list-style-type: none">• CMS Exotica PAG: E. Barberis, O. Boeriu, J. Brooke, G. Bruno, J. Chen, J.P. Chou, K. F. Chen, A. De Roeck, S. Eno, M. Gallinaro, S. Harper, C. Hill, G. Landsberg, M. Mozer, J. Pela, S. Rappoccio, A. Rizzi, K. Rossato, P. Rumerio, A. Safonov, C. Shepherd-Themistocleous, "Data Flow for the CMS Exotica Group for Early Running" CMS AN - 2009/XX (Under Preparation)	

	<ul style="list-style-type: none"> • P. Ribeiro, M. Gallinaro, M. Kazana, J. Pela, J. Varela, “<i>Discovery potential for Universal Extra Dimensions in the four leptons final state in pp collisions at $\sqrt{s} = 14$ TeV</i>” CMS AN - 2008/035 (<u>Pre-approved</u> waiting Review Committee Final Approval)
CONFERENCE PRESENTATIONS	PASC Winter School 2008 - Discovery potential for Extra Dimensions in the four lepton final state at the LHC
SCIENTIFIC PROFESSIONAL EXPERIENCE	<p>Laboratório de Instrumentação e Física Experimental de Partículas, Lisboa, Portugal</p> <p><i>Junior Researcher for the CMS Experiment at the LHC</i> 2007 to present</p> <ul style="list-style-type: none"> • Coordinator and developer of the EXOTrilepton Exercise for CMS Exotica group as a part of 2009 October Exercise with the objective of testing LHC Data Flow Model Oct 2009 • Worked on 16 shifts as CMS-ECAL Barrel, Endcaps and Safety Shifter, during the CRAFT 2009 (cosmics) program. Aug 2009 • Design and implementation of method for studying potential for Universal Extra Dimensions with a four lepton final state Dec 2008 to present • Design and implementation of method for studying $t\bar{t}$ in semileptonic and fully leptonic with hadronic τ channels Set 2007 to Dec 2008 <p>Centro de Fusão Nuclear, Lisboa, Portugal</p> <p><i>Experimental Physist</i> 2003</p> <ul style="list-style-type: none"> • Helped to design a test PCB Board to implement the new system of slow control of the ISTOK Tokamak Fusion Reactor based in CAN technology
OTHER PROFESSIONAL EXPERIENCE	<p>Web Designer, Archica-Us (currently under construction), 2009</p> <ul style="list-style-type: none"> • Design of the graphical interface • Design of site's application <p>Web Designer, SER — Sereno Estado Relaxamento (currently offline), 2007</p> <ul style="list-style-type: none"> • Relocation of the website • Re-design of the graphical interface • Update of site's content <p>Judo Teacher, Externato Champagnat, 2006-2007</p> <p>Judo Teacher, Ginásio Leão das Furnas, 2003-2004</p> <p>Counselor in Summer Camp, Junta de Freguesia de Benfica, 2002</p> <ul style="list-style-type: none"> • This Summer Camp was included in the <i>Férias Desportivas</i> program • During the Camp was responsible for the Judo Classes
SERVICE	Sysadmin, Lisboa Racket Center , 2008-2009
LANGUAGE SKILLS	<p>Portuguese</p> <ul style="list-style-type: none"> • Native Speaker

English

- Excelent comprehension of spoken and written language
- 1st language of choice during undergraduate studies (7 years of classes)
- Language used in work place for since 2007

French

- Generic comprehension of spoken and written language
- 2nd language of choice during undergraduate studies (3 years of classes)

Spanish

- Generic comprehension of spoken and written language

TECHNICAL SKILLS Extensive hardware and software experience in networking and information technology

Programming: C, C++, HTML, PHP, MySQL, JAVA, Fortran 95, Mathematica, Assembler, CVS, UNIX shell scripting

Database: MySQL, SQL

Web Oriented: HTML, PHP, CSS, Javascript, XML

System Administration: Shell Scripting (Bash, SH Shell), CVS

Applications: L^AT_EX, Microsoft Office, Open Office, and other common productivity packages for Windows and Linux platforms

Operating Systems: Linux (administration knowledge), Microsoft Windows XP/2000/Vista/7

Driver's Licence for motorcycle (all A class) and cars (B class)