

Curriculum Vitae

Dr Stavros MALTEZOS

- Place and date of Birth* : Rhodes - Greece, October 16, 1951
- Current Position* : Assistant Professor at School of Applied Sciences - Physics Department,
National Technical University of Athens (NTUA)
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- Telephone / Fax* : +3010 772 3026 / +3010 772 3021
- Education* : Ph.D in Experimental Physics, National Technical Univ. of Athens (1995)
BS & MS in Electrical Engineering, National Technical Univ. of Athens (1982)
BS in Electronics, Inst. of Technology-Athens (1976)
Languages: Greek (mother-excellent), English (very well), French (well)
- Honors* : Fellowship from Greek National Fellowship Foundation, 1st pos. (1981)
Fellowship from Greek National Fellowship Foundation, 1st pos. (1976)
- Professional Experience* : Assistant Professor, at National Technical University of Athens, (2005-Today)
Lecturer, at National Technical University of Athens, (1999-2004)
Research Assistant, at National Technical University of Athens (1995-1998)
Graduate Research Assistant, National Technical Univ. of Athens (1982-1995)
Staff Engineer, Physics Dep. of Nat. Techn. Univ. of Athens (1980-1988)
Radar Engineer fulfilling the Military Obligations, Greek Air Force (1976-79)
- Responsibilities* : Responsible for the Gas Systems of ATLAS-MDT QA_QC (2000-2005)
Co-responsible for the DELPHI RICH Gas Refractometer, CERN (1996-2000)
- Research Experiments* : ATLAS at LHC accelerator, CERN (1999-Today)
CTA Observatory (2009-Today)
Pierre AUGER Project (1996-Today)
DELPHI at LEP accelerator, CERN (1988-2001)
NA-14 & NA14-prime at SPS accelerator, CERN (1981-1987)
- Publications* : Publications in International Journals: 216, Internal Notes & Reports: 43,
Publications in International Conference Proceedings: 88, Seminars & Talks: 25,
Conference Attendance: 21
- Research programs* : Completed programs (member in the main research team): 10
Submitted programs (member in the main research team): 3
Submitted programs (main researcher): 2

- Conference organizing* : Member of local scientific committee of Corfu Summer School 2010 - EISA
- Computer Experience* : Operating Systems: UNIX, VMS, PC (Windows, Linux), Linux
 Computer Languages: BASIC, FORTRAN, Pascal, Assembly, C, C++
 Programming Commercial Tools: MATLAB, PAW, EXCEL, AUTOCAD
 Software Development: Data analysis, Detector simulations, Optical filter design,
 2-D/3-D Graphics, Optimization and intelligent algorithms
- Memberships* : European Organization of Particle Physics, CERN (from 1983)
 Hellenic Society of High Energy Physics Studies (from 1982)
 Hellenic Technical Chamber (from 1982)
 Hellenic Society of Mechanical & Electrical Engineers (from 1982)

LIST OF PUBLICATIONS AT INTERNATIONAL SCIENTIFIC JOURNALS

1. (N216) V. Gika, E. Fokitis, S. Maltezos, “**Dedicated Spectrograph for High Resolution Measurement of Air Fluorescence Yield in Accelerator Experiments**”, recently submitted to Nucl. Instr. and Methods (2010).
2. (N215) By DELPHI Collaboration ([J. Abdallah et al.](#)), “**Study of the Dependence of Direct Soft Photon Production on the Jet Characteristics in Hadronic Z^0 Decays**”, CERN-PH-EP-2009-014, Apr 2010. 40pp., Published in Eur.Phys.J.C67:343-366,2010, e-Print: arXiv:1004.1587 [hep-ex], Cited [3 times](#)
3. (N214) By ATLAS Collaboration ([G. Aad et al.](#)), “**Charged-particle multiplicities in pp interactions at $\sqrt{s} = 900$ GeV measured with the ATLAS detector at the LHC**”, CERN-PH-EP-2010-004, Mar 2010. 40pp. Published in Phys.Lett.B688:21-42,2010, e-Print: arXiv:1003.3124 [hep-ex]Cited [26 times](#).
4. (N213) By ATLAS Collaboration ([G Aad et al.](#)), “**Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons**”, e-Print: arXiv:1002.4189 [physics.ins-det], Cited [2 times](#).
5. (N212) By ATLAS Collaboration (G Aad et al.), “**Readiness of the ATLAS Liquid Argon Calorimeter for LHC Collisions**”, Long author list - awaiting processing, Submitted to Eur. Phys. J. C e-Print: arXiv:0912.2642 [physics.ins-det], Cited [4 times](#).
6. (N211) [T. Alexopoulos et al.](#), “**Study of a micromegas chamber in a neutron beam**”, Prepared for 1st International Conference on Micro Pattern Gaseous Detectors (MPGD 200e-Print: arXiv:1003.3124 [hep-ex] 9), Kolympari, Chania, Crete, Greece, 12-15 Jun 2009. Published in JINST 5:P02005, 2010.
7. (N210) By ATLAS Collaboration ([P. Ryan et al.](#)), “**The ATLAS Inner Detector commissioning and calibration**”, [Temporary entry](#), Submitted to Eur. Phys. J. C. e-Print: arXiv:1004.5293 [physics.ins-det]

8. (N209) [A. Geranios](#), [D. Koutsokosta](#), [A. Mastichiadis](#), [O. Malandraki](#), [H. Rosaki-Mavrouli](#), [S. Maltezos](#), “**Energy estimation of ultra-high energy cosmic ray hadrons by Monte Carlo simulations of extensive air showers**”, 2010. 11pp.
Published in Int.J.Mod.Phys.A25:2561-2571, 2010.
9. (N208) [T. Alexopoulos et al.](#), “**Development of large size Micromegas detector for the upgrade of the ATLAS muon system**”, Prepared for 11th Pisa Meeting on Advanced Detectors: Frontier Detectors for Frontier Physics, La Biodola, Isola d'Elba, Italy, 24-30 May 2009. Published in Nucl.Instrum.Meth.A617:161-165, 2010.
10. (N207) Geranios, D. Koutsokosta, O. Malandraki, H. Rozaki-Mavrouli, S. Maltezos, A. Mastichiadis, “**Energy Estimation of Ultra High Energy Cosmic Hadrons and Gamma Rays by Lateral Distribution Functions of Extensive Air Showers**”, Int. J. Mod. Phys. A (IJMPA), accepted for publication - No IJMPA-D-09-00254, 2009.
11. (N206) E. Fokitis, P. Fetfatzis, A. Georgakopoulou, S. Maltezos and A. Aravantinos, “**Design of a High Spectral Resolution Lidar for Atmospheric Monitoring in EAS Detection Experiments**”, Nuclear Physics B (Proc. Suppl.) 190, 2009, p. 261–265.
12. (N205) E. Fokitis, P. Fetfatzis, S. Maltezos, I. Kouretis, and Antonakakis Spyropoulos, “**Plasma Source for the Emulation of the Atmospheric Fluorescence Produced by the Secondaries of Ultra High Energy Cosmic Ray Particles**”
Journal of High Temperature Material Processes, Volume 13, Issue 3, 2009, p. 323-328.
13. (N204) P. Iengo et al. (33 authors), “**Development of Muon Chambers Based on Micromegas Technology for the Upgrade of the ATLAS Experiment for the SLHC**”, submitted for publication, 2008.
14. (N203) By DELPHI Collaboration (J. Abdallah *et al.*), “**Inclusive single-particle production in two-photon collisions at LEP II with the DELPHI detector**”, CERN-PH-EP-2008-017, Jun 2009. 15pp. Published in Phys.Lett.B678:444-449,2009. e-Print: arXiv:0906.5302 [hep-ex]
15. (N202) By The ATLAS Collaboration (G. Aad *et al.*), “**Expected Performance of the ATLAS Experiment - Detector, Trigger and Physics**”
e-Print: arXiv:0901.0512 [hep-ex], 2009, Cited 197 times
16. (N201) By DELPHI Collaboration (J. Abdallah *et al.*), “**Correlations between Polarisation States of W Particles in the Reaction $e^- e^+ \rightarrow W^- W^+$ at LEP2 Energies 189- GeV - 209-GeV**”
CERN-PH-EP-2009-003, 2009. 20pp. Published in Eur.Phys.J.C63:611-623,2009.
e-Print: arXiv:0908.1023 [hep-ex]
17. (N200) By DELPHI Collaboration (J. Abdallah *et al.*), “**A Study of b anti-b Production in e+e- Collisions at $s^{1/2} = 130\text{-GeV} - 207\text{-GeV}$** ” CERN-PH-EP-2008-018, Nov 2008. 21pp.
Published in Eur.Phys.J.C60:1-15,2009.
e-Print: arXiv:0901.4461 [hep-ex], Cited 1 time
18. (N199) By DELPHI Collaboration (J. Abdallah *et al.*), “**Search for one large extra dimension with the DELPHI detector at LEP**”
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19. (N198) C. Adorisio *et al.*, “**Study of the ATLAS MDT spectrometer using high energy CERN combined test beam data**” ATL-MUON-PUB-2008-005, ATL-COM-MUON-2007-013, Apr 2008. 42pp.
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20. (N197) By DELPHI Collaboration (J. Abdallah *et al.*), “**Di-jet production in gamma gamma collisions at LEP2**” CERN-PH-EP-2008-012, Jul 2008. 17pp.
Published in Eur.Phys.J.C58:531-541,2008. e-Print: arXiv:0901.4500 [hep-ex]
21. (N196) By ATLAS Muon Collaboration (C. Adorisio *et al.*), “**System test of the ATLAS muon spectrometer in the H8 beam at the CERN SPS**”
Published in Nucl.Instrum.Meth.A593:232-254, 2008
22. (N195) By The DELPHI Collaboration (J. Abdallah *et al.*), “**Study of b-quark mass effects in multijet topologies with the DELPHI detector at LEP**” CERN-PH-EP-2007-011, Published in Eur.Phys.J.C55:525-538,2008.
e-Print: arXiv:0804.3883 [hep-ex], Cited 1 [time](#)
23. (N194) By ATLAS Collaboration (G. Aad *et al.*), “**The ATLAS Experiment at the CERN Large Hadron Collider**”
Published in JINST 3:S08003,2008, Cited 140 [times](#)
24. (N193) A. Geranios, E. Fokitis, S. Maltezos, D. Koutsokosta, I. Antoniadou, O. Malandraki, A. Mastichiadis, E. Antonopoulou, S. Dimitrakoudis, “**Energy estimation of ultra high energy cosmic particles by lateral distribution functions of extensive air showers**”
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25. (N192) A. Geranios, E. Fokitis, S. Maltezos, K. Patrinos, H. Rozaki-Mavrouli, “**Simulations of extensive air showers for the estimation of the number of photoelectrons of a setup of P. Auger fluorescence detector**”
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26. (N191) By DELPHI Collaboration (J. Abdallah *et al.*), “**Measurement of the Mass and Width of the W Boson in e+ e- Collisions at $s^{*(1/2)} = 161\text{-GeV} - 209\text{-GeV}$** ”
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27. (N190) By DELPHI Collaboration (J. Abdallah *et al.*), “**Higgs boson searches in CP-conserving and CP-violating MSSM scenarios with the DELPHI detector**”
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28. (N189) By DELPHI Collaboration (J. Abdallah *et al.*), “**Study of W boson polarisations and Triple Gauge boson Couplings in the reaction e+e- ---> W+W- at LEP 2**”
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30. (N187) By DELPHI Collaboration (J. Abdallah *et al.*), **“Search for Pentaquarks in the Hadronic Decays of the Z Boson with the DELPHI Detector at LEP”**
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32. (N185) By DELPHI Collaboration (J. Abdallah *et al.*), **“Study of triple-gauge-boson couplings ZZZ , $ZZ\gamma$ and $Z\gamma\gamma$ at LEP”**
HEP-PH-EP-2006-008, Mar 2007. 29pp.
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e-Print: arXiv:0706.2741 [hep-ex], Cited 1 time
33. (N184) By DELPHI Collaboration (J. Abdallah *et al.*), **“Z γ^* production in e^+e^- interactions at $s^{*1/2} = 183 - 209\text{-GeV}$ ”**
CERN-PH-EP-2006-022, Jun 2007. 38pp.
Published in Eur.Phys.J.C51:503-523, 2007.
e-Print: arXiv:0706.2565 [hep-ex], Cited 2 times
34. (N183) By DELPHI Collaboration (J. Abdallah *et al.*), **“Study of multi-muon bundles in cosmic ray showers detected with the DELPHI detector at LEP”**
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e-Print: arXiv:0706.2561 [astro-ph]
35. (N182) By DELPHI Collaboration (J. Abdallah *et al.*), **“Investigation of colour reconnection in WW events with the DELPHI detector at LEP-2”**
CERN-PH-EP-2006-037, Nov 2006. 39pp.
Published in Eur.Phys.J.C51:249-269, 2007.
e-Print: arXiv:0704.0597 [hep-ex], Cited 4 times
36. (N181) By DELPHI Collaboration (J. Abdallah *et al.*), **“Search for a fourth generation b-prime-quark at LEP-II at $s^{*1/2} = 196\text{-GeV} - 209\text{-GeV}$ ”**
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e-Print: arXiv:0704.0594 [hep-ex], Cited 2 times
37. (N180) A. Geranios, E. Fokitis, S. Maltezos, A. Mastichiadis, O.E. Malandraki, I. Antoniadou, **“Identification of gamma ultra high energy cosmic rays by simulating extensive air showers”**, 2006. 7pp.

Prepared for 7th International Astronomy Conference of the Hellenic Astronomical Society: Recent Advances in Astronomy and Astrophysics, Keffainia Island, Lixourion, Greece, 8-11 Sep 2005.

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38. (N179) By Pierre Auger Collaboration (M. Aglietta et al.), “**Anisotropy studies around the Galactic Centre at EeV energies with the Auger Observatory**”
FERMILAB-PUB-06-241-A-TD, Jul 2006.
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e-Print: astro-ph/0607382, Cited 25 times
39. (N178) By Pierre Auger Collaboration (J. Abraham et al.), “**An upper limit to the photon fraction in cosmic rays above 10^{19} -eV from the Pierre Auger Observatory**”
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e-Print: astro-ph/0606619, Cited 32 times
40. (N177) By DELPHI Collaboration (J. Abdallah et al.), “**Study of Leading Hadrons in Gluon and Quark Fragmentation**”
CERN-PH-EP-2006-015, May 2006. 19pp.
Published in Phys.Lett.B643:147-157, 2006.
e-Print: hep-ex/0610031, Cited 2 times
41. (N176) T. Alexopoulos, R. Avramidou, M. Dris, T.A. Filippas, E. Gazis, E. Katsoufis, S. Maltezos, P. Savva, G. Tsipolitis, E. Tzamariudaki, “**Quality control results of the drift tubes for the ATLAS MDT-BIS chambers**”, 2006. 7pp.
Published in Nucl.Instrum.Meth.A560:633-639, 2006.
42. (N175) By DELPHI Collaboration (J. Abdallah et al.), “**Masses, Lifetimes and Production Rates of Xi- and anti-Xi+ at LEP 1**”
CERN-PH-EP-2006-016, May 2006. 20pp.
Published in Phys.Lett.B639:179-191, 2006.
e-Print: hep-ex/0606030, Cited 1 time
43. (N174) By DELPHI Collaboration (J. Abdallah et al.), “**Single intermediate vector boson production in e+e- collisions at $s^{1/2} = 183$ -GeV to 209-GeV**”
CERN-PH-EP-2005-026, May 2005. 27pp.
Published in Eur.Phys.J.C45:273-289, 2006.
e-Print: hep-ex/0601040, Cited 2 times
44. (N173) By DELPHI Collaboration (J. Abdallah et al.), “**Evidence for an excess of soft photons in hadronic decays of Z0**”
CERN-PH-EP-2005-052, Nov 2005. 37pp.
Published in Eur.Phys.J.C47:273-294, 2006.
e-Print: hep-ex/0604038, Cited 1 time
45. (N172) By DELPHI Collaboration (J. Abdallah et al.), “**Search for excited leptons in e+ e- collisions at $s^{1/2} = 189$ -GeV to 209-GeV**”
CERN-PH-EP-2004-067, Oct 2004. 31pp.

Published in Eur.Phys.J.C46:277-293, 2006.
e-Print: hep-ex/0603045, Cited 5 times

46. (N171) By DELPHI Collaboration (J. Abdallah et al.), “**A Measurement of the tau hadronic branching ratios**”
CERN-PH-EP-2004-046, Dec 2003. 53pp.
Published in Eur.Phys.J.C46:1-26, 2006.
e-Print: hep-ex/0603044, Cited 3 times
47. (N170) By DELPHI Collaboration (J. Abdallah et al.), “**Determination of the b quark mass at the M(Z) scale with the DELPHI detector at LEP**”
CERN-PH-EP-2005-020, Apr 2005. 24pp.
Published in Eur.Phys.J.C46:569-583, 2006.
e-Print: hep-ex/0603046, Cited 3 times
48. (N169) By DELPHI Collaboration (J. Abdallah et al.), “**Study of double-tagged gamma gamma events at LEP II**”
CERN-PH-EP-2005-029, Jun 2005. 17pp.
Published in Eur.Phys.J.C46:559-568, 2006.
e-Print: hep-ex/0604039, Cited 2 times
49. (N168) By ALEPH Collaboration and DELPHI Collaboration and L3 Collaboration and OPAL Collaborations and LEP Working Group for Higgs Boson Searches (S. Schael et al.), “**Search for neutral MSSM Higgs bosons at LEP**”
CERN-PH-EP-2006-001, Jan 2006. 82pp.
Published in Eur.Phys.J.C47:547-587, 2006.
e-Print: hep-ex/0602042, Cited 120 times
50. (N167) By DELPHI Collaboration (J. Abdallah et al.), “**A Determination of the centre-of-mass energy at LEP2 using radiative 2-fermion events**”
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e-Print: hep-ex/0602016, Cited 4 times
51. (N166) By DELPHI Collaboration (J. Abdallah et al.), “**Measurement and interpretation of fermion-pair production at LEP energies above the Z resonance**”
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Published in Eur.Phys.J.C45:589-632, 2006.
e-Print: hep-ex/0512012, Cited 10 times
52. (N165) By DELPHI Collaboration (J. Abdallah et al.), “**Determination of heavy quark non-perturbative parameters from spectral moments in semileptonic B decays**”
CERN-PH-EP-2005-015, Mar 2005. 44pp.
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53. (N164) By DELPHI Collaboration (J. Abdallah et al.), “**Flavour independent searches for hadronically decaying neutral Higgs bosons**”
CERN-PH-EP-2004-066, Sep 2004. 26pp.

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54. (N163) By DELPHI Collaboration (J. Abdallah et al.), “**Charged particle multiplicity in three-jet events and two-gluon systems**”
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55. (N162) By DELPHI Collaboration (J. Abdallah et al.), “**Production of $\Xi^0(c)$ and $\Xi(b)$ in Z decays and lifetime measurement of $X(b)$** ”
CERN-PH-EP-2004-068
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56. (N161) By DELPHI Collaboration (J. Abdallah et al.), “**Bose-Einstein correlations in $W^+ W^-$ events at LEP2**”
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57. (N160) By DELPHI Collaboration (J. Abdallah et al.), “**Determination of $A^{**b}(FB)$ at the Z pole using inclusive charge reconstruction and lifetime tagging**”
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e-Print: hep-ex/0412004, Cited 6 times
58. (N159) By DELPHI Collaboration (J. Abdallah et al.), “**Coherent soft particle production in Z decays into three jets**”
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59. (N158) By DELPHI Collaboration (J. Abdallah et al.), “**Measurement of the energy dependence of hadronic jet rates and the strong coupling $\alpha(s)$ from the four-jet rate with the DELPHI detector at LEP**”
CERN-PH-EP-2004-036, Apr 2004. 27pp.
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60. (N157) By DELPHI Collaboration (J. Abdallah et al.), “**Photon events with missing energy in e^+e^- collisions at $s^{**}(1/2) = 130\text{-GeV to } 209\text{-GeV}$** ”
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61. (N156) By DELPHI Collaboration (J. Abdallah et al.), “**Searches for neutral higgs bosons in extended models**”
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62. (N155) By DELPHI Collaboration (J. Abdallah *et al.*), “**Determination of the $e^+ e^- \rightarrow \gamma \gamma$ (gamma) cross-section at LEP 2**”
CERN-PH-EP-2004-017, Apr 2004. 24pp.
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63. (N154) By DELPHI Collaboration (J. Abdallah *et al.*), “**A Precise measurement of the tau lifetime**”
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65. (N152) By DELPHI Collaboration (J. Abdallah *et al.*). “**Search for fermiophobic Higgs bosons in final states with photons at LEP 2**”
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66. (N151) By DELPHI Collaboration (J. Abdallah *et al.*). “**The Measurement of $\alpha(s)$ from event shapes with the DELPHI detector at the highest LEP energies**”
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67. (N150) By DELPHI Collaboration (J. Abdallah *et al.*), “**Study of tau-pair production in photon-photon collisions at LEP and limits on the anomalous electromagnetic moments of the tau lepton**”
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68. (N149) By DELPHI Collaboration (J. Abdallah *et al.*), “**Search for supersymmetric particles assuming R-parity nonconservation in $e^+ e^-$ collisions at $s^{*(1/2)} = 192\text{-GeV to } 208\text{-GeV}$ ”
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69. (N148) By DELPHI Collaboration (J. Abdallah *et al.*). “**Search for single top production via FCNC at LEP at $s^{*(1/2)} = 189\text{-GeV to } 208\text{-GeV}$ ”
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70. (N147) By DELPHI Collaboration (J. Abdallah *et al.*), “**Search for B0(s) - anti-B0(s) oscillations in DELPHI using high-p(t) leptons**”
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71. (N146) By DELPHI Collaboration (J. Abdallah *et al.*), “**Search for charged Higgs bosons at LEP in general two Higgs doublet models**”
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