

Omega Group Publications from FY2007 to May, 2010

1. M. Begel, A. Patwa, M. Pleier, S. Protopopescu, S. Snyder, *et al.* (D0 Collaboration), Search for Higgs boson production in dilepton and missing energy final states with 5.4 fb⁻¹ of p-pbar collisions at $\sqrt{s} = 1.96$ TeV. Submitted to *Phys. Rev. Lett.* e-Print: arXiv:1001.4481 [hep-ex] (2010).
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230. Y. Semertzidis *et al.* Overlooked astrophysical signatures of axion(-like) particles. e-Print: astro-ph/0701627 (Jan. 2007). <http://arxiv.org/ftp/astro-ph/papers/0701/0701627.pdf> .
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233. M. Begel, A. Evdokimov, J. Kotcher, A. Patwa, S. Protopopescu, S. Snyder *et al.* (D0 Collaboration) Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV using secondary vertex b tagging. *Phys. Rev.* **D74** (2006) 112004. http://arxiv.org/PS_cache/hep-ex/pdf/0611/0611002v2.pdf .
234. M. Begel *et al.* Tevatron-for-LHC report of the QCD working group. FERMILAB-CONF-06-359, Oct 2006. 156pp. e-Print: hep-ph/0610012. http://arxiv.org/PS_cache/hep-ph/pdf/0610/0610012v1.pdf .

Invited Talks

1. K. Assamagan, at the International Conference on Neutrino Physics in the LHC Era, November 15-19, 2009 .
2. K. Assamagan, at the workshop on Higgs Days in Santander (Spain), September 14-18, 2009.
3. K. Assamagan, at the "From LHC to future Collider workshop" at CERN Geneva, Switzerland, February 9-27, 2009

4. K. Assamagan, at the Joint theoretical-Experimental on determining the properties of Higgs at the LHC, University of Washington, Seattle, January 12-16, 2009
5. M. Begel, Study of Hard QCD at the Tevatron, on behalf of the D0 and CDF Collaborations, at the 23rd Workshop in Particle Physics: Lew Rencontres de Physique de la Valle d'Aoste in March 2009 at La Thuile, Italy.
6. M. Begel, Talk on calculating multi-object trigger efficiencies, at the ATLAS Trigger Workshop at Beatenberg, SZ, Feb. 2009.
7. W. Chen, Performance of Thin-Window Silicon Drift Detectors" on Oct. 22nd of 2008, IEEE 2008 Nuclear Science Symposium, Dresden, Germany, in Nuclear Science Symposium Conference Record, Oct. 19-25, 2008 IEEE, N28-2.
8. D. Damazio, LAr/Tile/Level I/Trigger shutdown & commissioning, at Tau09, Copenhagen, Apr. 09.
9. S. Damazio, Detector digital readout signal processing for high energy physics, at HEPRIO2008, Brazil, Dec. 2008.
10. F. Lanni, Cryogenic readout electronics R&D for MicroBooNE and beyond, Technology and Instrumentation in particle Physics 2009 (TIPP09), 11-17 March 2009, Tsukuba, Japan.
11. W. Morse, FCAL R&D, FCAL, DESY, Zeuthen, Germany, May 2007.
12. W. Morse, GamCal: a Beam-strahlung Gamma Detector for Beam Diagnostics, Int'l Linear Collider Workshop, Hamburg, GM, June 2007.
13. W. Morse, Moving the ring, Muon g-2 Collaboration Meeting, FNAL, Batavia, IL, January 2009.
14. W. Morse, Floor stability requirements, Muon g-2 Collaboration Meeting, FNAL, Batavia, IL, August 2009.
15. W. Morse, PEDM E/B requirements, EDM Collaboration Meeting, BNL, May 2009.
16. A. Patwa, Beyond the standard model Higgs searches at the Tevatron. Given at XLIVth Rencontres de Moriond: EW Interactions and Unified Theories, La Thuile (Moriond), Italy, March 7 – 14, 2009.
17. S. Protopopescu, High pT physics at the Tevatron, at the High Energy Physics in the LHC Era Workshop, Valparaiso, Chile, Dec. 11, 2006.

18. S. Protopopescu, Tau identification at the Tevatron, at the Hadron Collider Physics Workshop, Duke University, May 25, 2006.
19. S. Protopopescu, The top quark, at the Paul Grannis Symposium, SUNY, Stony Brook, June 13, 2008.
20. G. Redlinger, Physics beyond the standard model in ATLAS at the startup of the LHC, presented at the XXI Recontres de Physique de la Vallée d'Aoste, March 4 – 10, 2007.
21. G. Redlinger, SUSY inclusive searches. How can we discover SUSY in 2009. LHC and Dark Matter Workshop, University of Michigan, Ann Arbor, Jan. 6-10, 2009
22. Y. Semertzidis, The storage ring EDM experiment, September 22, 2008, HEP Seminar, Stony Brook University.
23. Y. Semertzidis, Review of EDMs experiments, October 5, 2008, SPIN08, U. Virginia, Invited plenary talk.
24. Y. Semertzidis, Invited plenary talk on Precision Physics in Storage rings, October 25, 2008, at the International Conference on High Energy Physics (ICPP), Istanbul/Turkey.
25. Y. Semertzidis, HEP seminar on Deuteron & proton EDM experiment November 20, 2008, BNL .
26. Y. Semertzidis, Charged-particle EDM searches, at Gordon Conference, Rhode Island, July 2009.
27. Y. Semertzidis, Review of the electric dipole experiments, SPIN-08, Charlottesville, VA, Oct. 2009.
28. Y. Semertzidis, NP seminar on Deuteron and Proton EDMs, December 5, 2008, Kent State University.
29. Y. Semertzidis, Probing Deuteron EDM in storage rings, February 13, 2009, Colloquium at the Institute for Nuclear Studies of Dimokritos/Athens-Greece. In support of the polarimeter detector development as part of the R&D effort in Athens/Greece for the needs of the storage ring EDM effort
30. Y. Semertzidis, The proton and deuteron EDMs in storage rings May 9, 2009, New opportunities in the LHC era workshop at CERN, CERN/Geneva.

31. Y. Semertzidis, The status of the deuteron EDM experiment , May 25, 2009, CIPANP, San Diego.
32. Y. Semertzidis, Charged-Particle EDM Searches, July 12, 2009, Invited plenary talk at Gordon Conference/Rhode Island.
33. S. Snyder, Measurements of the Top Quark Mass at D0, 17th International Conference on Supersymmetry and the Unification of Fundamental interactions (SUSY09).
34. E. Stephensen, Progress on a Polarimeter for the Deuteron EDM Search, at DNP 08, Oakland, CA, Oct. 2008.
35. H. Takai, Development of bi-static radar for ultra high energy cosmic rays, High Energy Experimental Seminar, Rutgers University, Dec. 8, 2008
36. H. Takai, Harry particle and the chamber of muons, Keynote Speaker at the National Science Bowl, Science Day, February 2009.
37. H. Takai, Heavy Ion Physics with the ATLAS detector, in Strangeness in Quark Matter conference, Buzios, September 27-October 2nd, 2009.
38. H. Takai, The Physics of the Possible, ICON 27, science fiction convention, April 4th, 2009.
39. H. Takai, Formando Cientistas, Instituto de Fisica Teorica, Sao Paulo – October 5, 2009 (in Portuguese).
40. H. Takai, Development of bi-static radar for Ultra High Energy cosmic ray detection, Snowpac 09, February 1-7, 2009, Snowbird Utah.
41. H. Takai, Science Without Borders, my own experiences. AAPT meeting, Ann Arbor, MI, July 2009.
42. H. Takai, The MARIACHI Project, presented at LISELA - Long Island Science Education Leadership Association, March 31st, Molloy College, Farmingdale.
43. H. Takai, High pT probes in heavy ion collisions at LHC, at 8th International Workshop on Relativistic Aspects of Nuclear Physics, RANP08, Rio de Janeiro, Brazil, Nov. 2009.
44. C. Thorn, Precision polarimetry of solid HD photonuclear targets at LEGS, SPIN Physics, 18th International Spin Physics Symposium, Charlottesville, VA, 6 – 11 October, 2008, ed. D.G. Crabb *et al.*, American Institute of Physics (2009) 880.

Omega Group Publications from May 2010 to April 2011

ATLAS

1. Assamagan, K., Begel, M., Chen, H., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., S., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration) Measurement of the inelastic proton-proton cross-section at $\sqrt{s} = 7$ TeV with the ATLAS detector. Apr 2011. 6 pp. e-Print: arXiv:1104.0326 [hep-ex]. <http://arxiv.org/pdf/1104.0326>
2. Assamagan, K., Begel, M., Chen, H., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., S., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration) Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS experiment. Mar 2011. 6 pp. e-Print: arXiv:1103.6214 [hep-ex]. http://arxiv.org/PS_cache/arxiv/pdf/1103/1103.6214v1.pdf
3. Assamagan, K., Begel, M., Chen, H., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., S., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration) Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in final states with missing transverse momentum and b -jets. Mar 2011, 9 pp, e-Print: arXiv:1103.4344 [hep-ex]. http://arxiv.org/PS_cache/arxiv/pdf/1103/1103.4344v1.pdf
4. Assamagan, K., Begel, M., Chen, H., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., S., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration) Search for high mass dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment. Mar 2011. 7 pp. e-Print: arXiv:1103.6218 [hep-ex]. http://arxiv.org/PS_cache/arxiv/pdf/1103/1103.6218v1.pdf
5. Assamagan, K., Begel, M., Chen, H., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., S., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration) Search for a heavy particle decaying into an electron and a muon with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC. <http://arxiv.org/pdf/1103.5559>

6. Assamagan, K., Begel, M., Chen, H., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration) Search for new physics in dijet mass and angular distributions in pp collisions at $\sqrt{s} = 7$ TeV measured with the ATLAS detector. Mar 2011, 29 pp, e-Print: arXiv:1103.3864 [hep-ex]. <http://arxiv.org/pdf/1103.3864>
7. Assamagan, K., Begel, M., Chen, H., Damazio, D., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration) Measurement of the muon charge asymmetry from W bosons produced in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Mar 2011, 8 pp, e-Print: arXiv:1103.2929 [hep-ex]. <http://arxiv.org/pdf/1103.2929>
8. Assamagan, K., Begel, M., Chen, H., Damazio, D., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration), Search for stable hadronising squarks and gluinos with the ATLAS experiment at the LHC. Mar 2011. 9 pp. e-Print: arXiv:1103.1984 [hep-ex]. http://arxiv.org/PS_cache/arxiv/pdf/1103/1103.1984v1.pdf
9. Assamagan, K., Begel, M., Chen, H., Damazio, D., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration), Measurements of underlying-event properties using neutral and charged particles in pp collisions at 900 GeV and 7 TeV with the ATLAS detector at the LHC. Mar 2011, 20 pp, e-Print: arXiv:1103.1816 [hep-ex]. http://arxiv.org/PS_cache/arxiv/pdf/1103/1103.1816v1.pdf
10. Assamagan, K., Begel, M., Chen, H., Damazio, D., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration), Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Mar 2011, 10 pp, e-Print: arXiv:1103.1391 [hep-ex]. http://arxiv.org/PS_cache/arxiv/pdf/1103/1103.1391v1.pdf
11. Assamagan, K., Begel, M., Chen, H., Damazio, D., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M.,

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12. Lanni, F., Rajagopalan, S., Tarrade, F. (ATLAS Collaboration), Combined performance studies for electrons at the 2004 ATLAS combined test-beam. *JINST* **5** (2010) P11006.
http://iopscience.iop.org/1748-0221/5/11/P11006/pdf/1748-0221_5_11_P11006.pdf
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14. Assamagan, K., Begel, M., Chen, H., Damazio, D., Gadfort, T., Gibbard, B., Lanni, F., Lissauer, D., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration), Search for supersymmetry using final states with one lepton, jets, and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV pp . Feb 2011. 5 pp. e-Print: arXiv:1102.2357 [hep-ex].
http://arxiv.org/PS_cache/arxiv/pdf/1102/1102.2357v2.pdf
15. Assamagan, K., Begel, M., Chen, H., Damazio, D., Gadfort, T., Gibbard, B., Lanni, F., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration), Search for massive long-lived highly ionizing particles with the ATLAS detector at the LHC. Feb 2011. 7 pp. e-Print: arXiv:1102.0459 [hep-ex].
http://arxiv.org/PS_cache/arxiv/pdf/1102/1102.0459v2.pdf
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http://arxiv.org/PS_cache/arxiv/pdf/1101/1101.0070v1.pdf

18. Assamagan, K., Begel, M., Chen, H., Damazio, D., Gadfort, T., Gibbard, B., Lanni, F., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration), Measurement of the production cross section for W -bosons in association with jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Dec 2010. 26 pp, Submitted to: *Phys.Lett.B*, e-Print: arXiv:1012.5382 [hep-ex] http://arxiv.org/PS_cache/arxiv/pdf/1012/1012.5382v2.pdf
19. Assamagan, K., Begel, M., Chen, H., Damazio, D., Gadfort, T., Gibbard, B., Lanni, F., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F. (ATLAS Collaboration), Measurement of the centrality dependence of J/ψ production and observation of Z production in lead-lead collisions with the ATLAS detector at the LHC. Dec 2010, *Phys. Lett.* **B697** (2011) 294-312. http://arxiv.org/PS_cache/arxiv/pdf/1012/1012.5419v1.pdf
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23. Lanni, F., Ma, H., Rajagopalan, S., Tarrade, F. (ATLAS Collaboration), A Layer Correlation technique for pion energy calibration at the 2004 ATLAS combined beam test. Dec 2010, 36 pp, e-Print: arXiv:1012.4305 [physics.ins-det]. http://arxiv.org/PS_cache/arxiv/pdf/1012/1012.4305v3.pdf
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25. Assamagan, K., Begel, M., Chen, H., Damazio, D., Gadfort, T., Gibbard, B., Lanni, F., Lynn, D., Ma, H., Majewski, S., Nikolopoulos, K., Pleier, M., Polychronakos, V., Protopopescu, S., Rajagopalan, S., Redlinger, G., Snyder, S., Takai, H., Tarrade, F., Tcherniatine, V. (ATLAS Collaboration), Measurement of underlying event characteristics using charged particles in pp collisions at $\sqrt{s} = 7$ GeV and 7 TeV with the ATLAS detector. Dec 2010, 36 pp, e-Print: arXiv:1012.0791 [hep-ex]. http://arxiv.org/PS_cache/arxiv/pdf/1012/1012.0791v2.pdf
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Invited Talks

1. Assamagan, K. Higgs searches at the LHC with 1/fb of data, IX DOSAR workshop, South Africa, April 6-8, 2010
2. Assamagan, K. ATLAS workshop on charged Higgs, Dubna, Russia Closing Remarks Inauguration Workshop of the LHC Higgs Cross Section Working Group May 11-13, 2010
3. Assamagna, K. Charged Higgs workshop, 2010, Uppsala, Sweden, Working group activity report on $H^+ \rightarrow SUSY$
4. Begel, M. Presented the plenary talk "Top Quark Production Cross Section at $\sqrt{s} = 7$ TeV" on behalf of the CDF and D0 collaborations at the 45th Rencontres de Moriond: QCD and High Energy Interactions in La Thuile, Italy in March 2010. The conference proceedings have been submitted for publication.

5. Chen, H. ATLAS LAr Calorimeter readout electronics upgrade R&D for sLHC, IHEP, Beijing, China, May 10-14, 2010.
6. *Damazio, D. Performance of the ATLAS Calorimeter trigger with 7 TeV collision data, CHEP 2010, October 18, 2010.*
7. Imig, A. Polarimeter Development for an Electric Dipole Moment Search in a Storage Ring, INPC meeting in Vancouver, July 04-09, 2010.
8. Ma, H. Overview talk on ATLAS experiment status and highlights of the first-year results, Conference on LHC First Data, Ann Arbor, MI, December 12 – 14, 2010.
9. Majewski, S. Observation of high-pT jet production in pp at $\sqrt{s} = 7$ TeV, QCD@Work – International Workshop on QCD – Theory and Experiment, Valle D'Itria, Italy, June 20 – 23, 2010.
10. *Majewski, S. Electronic readout of the Atlas Liquid Argon Calorimeter: Calibration and Performance, IEEE 17th Real-Time Conference, Lisboa, Portugal, May 24 – 28, 2011.*
11. Morse, W. EDM of the muon, proton, and deuteron in Storage Rings, TCP2010 (Traps for Charged Particles) Conference in Saariselka, Finland April 12-17, 2010. Paper to be published in proceedings.
12. Morse, W. EDM of the muon, proton, and deuteron in Storage Rings, Seminar Univ. Helsinki April 21, 2010.
13. Patwa, A. Beyond Standard Model Higgs Searches at the Tevatron, plenary talk representing DZero and CDF collaborations, presented at the 35th International Conference on High-Energy Physics (ICHEP 2010), July 22-28, 2010, Paris, France. Proceedings to be submitted in November 2010 (see also above 'Publications' section).
14. Pleier, M.-A. 22nd Rencontres de Blois, "Particle Physics and Cosmology, first results from the LHC", Château Royal de Blois, Blois, France, July 15 – 20, 2010.
15. Semertzidis, Y. Workshop on "The Physics of High Voltage Breakdown" at CERN, 5/7/2010, "E-field development for the proton EDM experiment"
16. Semertzidis, Y. International Workshop on Particle's EDM and implications at Shanghai Jiao Tong University, 6/16/2010, a talk on "The storage ring EDM method: the proton"
17. Semertzidis, Y. Seminar at KEK, 6/18/2010, a talk on the "Proton EDM experiment at BNL"
18. Semertzidis, Y. Invited talk at the "Lepton Moments" at Cape Cod/Mass, 7/21/2010, a talk on "Sensitive EDM probes in storage rings: the proton case".

19. Snyder, S. Electron and photon performance and electron p_T spectrum measurement with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV, ICHEP 2010, Paris, France, July 22 – 28, 2010.
20. Takai, H. Radar Detection of Cosmic Ray Showers, Invited Talk at - SNOWPAC 2010, March 23-28, Snowbird Utah
21. Takai, H. Física de Partículas na graduação e no ensino médio (in portuguese) invite seminar, at Instituto de Física Teórica da UNESP, August 26, 2010, Sao Paulo Brazil
22. Takai, H. The MARIACHI experiment, ICATPP Conference on Cosmic Rays for Particle and Astroparticle Physics, Villa Olmo, Como (Italy) 7-8 October 2010.
23. Tarrade, F. W +jets background in charged Higgs searches September 23, 2010.