

## **Barry Jay BLUMENFELD**

Professor of Physics and Astronomy  
The Johns Hopkins University  
Baltimore, MD 21218-2686

Tel:(410)516-7358  
FAX:(410)516-7239  
E-Mail:bjb@jhu.edu

### *Education:*

- 1974 Ph.D. Columbia University, New York, N.Y.  
Ph.D. Thesis: Observation of  $\pi^0$  Mesons with Large Transverse  
Momentum in High Energy Proton-Proton Collisions  
Ph.D. Advisor: Leon Lederman
- 1973 M.Phil, Physics, Columbia University
- 1970 M.A. , Physics, Columbia University
- 1968 B.S., Physics, Massachusetts Institute of Technology,  
Cambridge, Massachusetts

### *Honors and Awards:*

- 1970-1973 National Science Foundation Pre-Doctoral Fellow,  
Columbia University, New York, N.Y.
- 1969-1970 New York State Regents Fellow, Columbia University
- 1968-1969 National Science Foundation Trainee, Columbia University
- 1968-1970 Eugene Higgins Fellow of the Faculty, Columbia University

### *Employment:*

- 1988-present Professor of Physics, Johns Hopkins University  
Baltimore, Maryland
- 1984-1988 Associate Professor of Physics, Johns Hopkins University  
Baltimore, Maryland
- 1981-1984 Assistant Professor of Physics, Johns Hopkins University  
Baltimore, Maryland
- 1979-1981 Visiting Assistant Professor, Johns Hopkins University  
Baltimore, Maryland
- 1978-1979 Scientific Associate, E. P. Division, CERN,  
Geneva, Switzerland
- 1973-1978 Research Associate, Nevis Laboratories  
(working at CERN, Geneva, Switzerland)
- Summer 1969 Research Assistant, Nevis Laboratories,  
Irvington, N.Y.
- 1968-1969 Technical Collaborator, Brookhaven National Laboratory,  
Upton, N.Y.
- Summer 1968 Research Assistant, Brookhaven National Laboratory  
Upton, N.Y.
- Summer 1967 Research Assistant, Laboratory for Nuclear Science, MIT,  
Cambridge, Massachusetts

### *Membership and Committees:*

- American Physical Society
- High Energy and Nuclear Physics Program Advisory Committee at  
Brookhaven National Laboratory 1993-1996
- Physics Discipline Committee for Fulbright Fellowships 1990-1993,1996
- Executive Committee AGS Users Organization at  
Brookhaven National Laboratory 1988-1991
- Department of Defense SMART Fellowship Panel 2006
- Guest Scientist Fermi National Accelerator Laboratory 2006-2015

## Publications for Barry J. Blumenfeld

- 1) FORMATION OF THE  $Y^*(1616)$  and  $Y^*(1700)$  in  $K^0(L) P$  INTERACTIONS with G. R. Kalbfleisch, Phys. Lett. 20B, 58, 1969
- 2) MEASUREMENT OF ELECTRON ENERGY WITH DISCRIMINATION AGAINST HADRONIC BACKGROUND, with L. M. Lederman, R. L. Cool, S. L. Segler, Nuclear Instrum Methods. 97, 427, 1971
- 3) OBSERVATION OF  $\pi^0$  MESONS WITH LARGE TRANSVERSE MOMENTUM IN HIGH-ENERGY PROTON-PROTON COLLISIONS.  
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Published in Phys.Lett.B46:471-476, 1973
- 4) A SEARCH FOR LARGE TRANSVERSE MOMENTUM ELECTRONS AT THE CERN ISR, with F. W. Busser, L. Camilleri, L. Di Lella, G. Gladding, A. Placci, B. G. Pope, A. M. Smith, J. K. Yoh, E. Zavattini, L. M. Lederman, R. L. Cool, L. Litt, S. L. Segler.  
Published in Phys. Lett. 48B, 371, 1974
- 5) SEARCH FOR ELECTRON PAIRS AT THE CERN ISR, with F. W. Busser, L. Camilleri, L. Di Lella, G. Gladding, A. Placci, B. G. Pope, A. M. Smith, J. K. Yoh, E. Zavattini, L. M. Lederman, R. L. Cool, L. Litt, S. L. Segler.  
Published in Phys. Lett. 48B, 377, 1974
- 6) A LEAD - GLASS CERENKOV DETECTOR FOR ELECTRONS AND PHOTONS.  
By J.S. Beale, F.W. Busser, L. Camilleri, L. Di Lella, G. Gladding, A. Placci, B.G. Pope, A.M. Smith, B. Smith, J.K. Yoh, E. Zavattini (CERN), B.J. Blumenfeld, L.M. Lederman (Columbia U.), R.L. Cool, L. Litt, S.L. Segler (Rockefeller U.).  
Print-74-0274 (CERN), Nov 1973. 21pp.  
Published in Nucl.Instrum.Methods 117, 501, 1974
- 7) OBSERVATION OF  $\pi^0$  MESONS WITH LARGE TRANSVERSE MOMENTUM IN HIGH-ENERGY PROTON-PROTON COLLISIONS.  
By Barry Blumenfeld (Nevis Labs, Columbia U.). NEVIS-202, 1974. 103pp.  
Ph.D thesis.
- 8) CORRELATIONS BETWEEN LARGE TRANSVERSE MOMENTUM  $\pi^0$  MESONS AND CHARGED PARTICLES AT THE CERN ISR.  
By F.W. Busser, L. Camilleri, L. Di Lella, B.G. Pope, A.M. Smith, J.K. Yoh (CERN), B.J. Blumenfeld, L.M. Lederman (Columbia U.), R.L. Cool, L. Litt, S.L. Segler (Rockefeller U.).  
Published in Phys.Lett. 51B, 311, 1974
- 9) CORRELATIONS BETWEEN TWO LARGE TRANSVERSE MOMENTUM  $\pi^0$  MESONS AT THE CERN ISR.  
By F.W. Busser, L. Camilleri, L. Di Lella, B.G. Pope, A.M. Smith, J.K. Yoh (CERN), B.J. Blumenfeld, L.M. Lederman (Columbia U.), R.L. Cool, L. Litt, S.L. Segler (Rockefeller U.).  
Published in Phys.Lett. 51B, 306, 1974

- 10) OBSERVATION OF HIGH TRANSVERSE MOMENTUM ELECTRONS AT THE CERN ISR.  
By F.W. Busser, L. Camilleri, L. Di Lella, B.G. Pope, A.M. Smith (CERN), B.J. Blumenfeld, S.N. White (Columbia U.), A.F. Rothenberg, S.L. Segler, M.J. Tannenbaum (Rockefeller U.), M. Banner, J.B. Cheze, J.L. Hamel, H. Kasha, J.P. Pansart, G. Smadja, J. Teiger, H. Zacccone, A. Zylberstejn (Saclay).  
Published in Phys.Lett.B53:212,1974
- 11) A STUDY OF HIGH TRANSVERSE MOMENTUM ETA AND PI0 MESONS AT THE CERN ISR.  
By F.W. Busser, L. Camilleri, L. Di Lella, B.G. Pope, A.M. Smith (CERN), B.J. Blumenfeld, S.N. White (Columbia U.), A.F. Rothenberg, S.L. Segler, M.J. Tannenbaum (Rockefeller U.), M. Banner, J.B. Cheze, J.L. Hamel, H. Kasha, J.P. Pansart, G. Smadja, J. Teiger, H. Zacccone, A. Zylberstejn (Saclay).  
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- 12) OBSERVATION OF HIGH MASS ELECTRON - POSITRON PAIRS PRODUCED IN PROTON-PROTON COLLISIONS AT THE CERN ISR.  
By F.W. Busser, L. Camilleri, L. Di Lella, B.G. Pope, A.M. Smith (CERN), B.J. Blumenfeld, S.N. White (Columbia U.), A.F. Rothenberg, S.L. Segler, M.J. Tannenbaum (Rockefeller U.), M. Banner, J.B. Cheze, J.L. Hamel, H. Kasha, J.P. Pansart, G. Smadja, J. Teiger, H. Zacccone, A. Zylberstejn (Saclay).  
Published in Phys.Lett.B56:482,1975
- 13) K0 AND LAMBDA PRODUCTION AT THE CERN ISR.  
By F.W. Busser, L. Camilleri, L. Di Lella, B.G. Pope, A.M. Smith (CERN), B.J. Blumenfeld, S.N. White (Columbia U.), A.F. Rothenberg, S.L. Segler, M.J. Tannenbaum (Rockefeller U.), M. Banner, J.B. Cheze, H. Kasha, J.P. Pansart, G. Smadja, J. Teiger, H. Zacccone, A. Zylberstejn (Saclay).  
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- 14) A STUDY OF INCLUSIVE SPECTRA AND TWO PARTICLE CORRELATIONS AT LARGE TRANSVERSE MOMENTUM.  
By F.W. Busser, L. Camilleri, L. Di Lella, B.G. Pope, A.M. Smith (CERN), B.J. Blumenfeld, S.N. White (Columbia U.), A.F. Rothenberg, S.L. Segler, M.J. Tannenbaum (Rockefeller U.), M. Banner, J.B. Cheze, H. Kasha, J.P. Pansart, G. Smadja, J. Teiger, H. Zacccone, A. Zylberstejn (Saclay).  
Published in Nucl.Phys.B106:1,1976
- 15) A MEASUREMENT OF SINGLE ELECTRONS, ELECTRON PAIRS, AND ASSOCIATED PHENOMENA, IN PROTON-PROTON COLLISIONS AT THE CERN ISR.  
By F.W. Busser, L. Camilleri, L. Di Lella, B.G. Pope, A.M. Smith (CERN), B.J. Blumenfeld, S.N. White (Columbia U.), A.F. Rothenberg, S.L. Segler, M.J. Tannenbaum (Rockefeller U.), M. Banner, J.B. Cheze, H. Kasha, J.P. Pansart, G. Smadja, J. Teiger, H. Zacccone, A. Zylberstejn (Saclay).  
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- 16) A SYSTEM OF CYLINDRICAL DRIFT CHAMBERS IN A SUPERCONDUCTING SOLENOID.  
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17) A MEASUREMENT OF INCLUSIVE  $\pi^0$  PRODUCTION AT LARGE  $P(T)$  FROM P P COLLISIONS AT THE CERN ISR.

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Published in Phys.Lett.B79:505-510,1978

18) A STUDY OF FINAL STATES CONTAINING HIGH  $P(T)$   $\pi^0$ 's AT THE CERN ISR. With A. L. S. Angelis, et al.

Published in Physica Scripta 19, 116 (1979).

19) A MEASUREMENT OF THE PRODUCTION OF MASSIVE  $E^+ E^-$  PAIRS IN PROTON-PROTON COLLISIONS AT  $S^{**}(1/2) = 62.4$ -GEV.

By CERN-Columbia-Oxford-Rockefeller Collaboration and CCOR Collaboration (A.L.S. Angelis et al.).

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20) SEARCH FOR DIRECT SINGLE PHOTON PRODUCTION AT LARGE  $P(T)$  IN PROTON-PROTON COLLISIONS AT  $S^{**}(1/2) = 62.4$ -GEV.

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21) A MEASUREMENT OF THE TRANSVERSE MOMENTA OF PARTONS, AND OF JET FRAGMENTATION AS A FUNCTION OF  $S^{**}(1/2)$  IN P P COLLISIONS.

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22) A STUDY OF PARTICLE CORRELATIONS AND CHARGE RATIOS IN DIRECT PHOTON EVENTS AT THE CERN INTERSECTING STORAGE RINGS.

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23) TRIPLE JET STRUCTURES IN PROTON PROTON INTERACTIONS.

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24) REPORT OF THE WORKING GROUP ON DATA TAKING WITH BUNCHED BEAMS.

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By G. Bozoki, T. Fainberg, H. Gordon, Y.Y. Lee, D. Weygand (Brookhaven), M. Atiya, C.Y. Chi, P. Coteus, S. Kim, W. Lee, C. Ma, P. Sokolsky, R. Zhu (Columbia U.), M. Diesburg, S. Fuess, T. O'Halloran, J. Wiss (Illinois U., Urbana), B. Barnett, D. Badtke, B. Blumenfeld, C.Y. Chien, L. Madansky, J.A.J. Matthews, A. Pevsner (Johns Hopkins U.), B. Saenz, N. Seeman (Naval Research Lab, Wash., D.C.). 1981.

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- 26) A TRIANGULAR TUBE PROPORTIONAL WIRE CHAMBER SYSTEM.  
By D.H. Badtke, J.A. Bakken, B.A. Barnett, B.J. Blumenfeld, C.Y. Chien, L. Madansky, J.A.J. Matthews, A. Pevsner, W.J. Spangler (Johns Hopkins U.), K.L. Lee, M. Nakamura, S.R. Olson (LBL, Berkeley).  
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- 27) FIRST OPERATION OF THE TPC FACILITY AT PEP.  
By PEP4 Collaboration.  
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- 28) PERFORMANCE OF THE SIGNAL PROCESSING SYSTEM FOR THE TIME PROJECTION CHAMBER.  
By TPC/Two Gamma Collaboration (S.C. Loken et al.). 1982.  
Published in IEEE Trans.Nucl.Sci.30:162-166,1983
- 29) PERFORMANCE OF A DRIFT CHAMBER SYSTEM FOR THE TIME PROJECTION CHAMBER DETECTOR FACILITY AT PEP.  
By TPC/Two Gamma Collaboration (C.S. Lindsey et al.). 1982.  
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- 30) SPATIAL RESOLUTION OF THE PEP-4 TIME PROJECTION CHAMBER.  
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- 31) MEASUREMENT OF IONIZATION LOSS IN THE RELATIVISTIC RISE REGION WITH THE TIME PROJECTION CHAMBER.  
By TPC/Two Gamma Collaboration (B. Gabioud et al.). 1982.  
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- 32) TESTING THE COMPOSITENESS OF QUARKS AND LEPTONS.  
By M.A. Abolins (Michigan State U.), B. Blumenfeld (Johns Hopkins U.), E. Eichten (Fermilab), H. Kagan, K. Lane (Ohio State U.), J. Leveille (Michigan U.), D. Pellett (UC, Davis), M.E. Peskin (SLAC), J.E. Wiss (Illinois U., Urbana). 1982.  
In \*Snowmass 1982, Proceedings, Elementary Particle Physics and Future Facilities\*, 274-287.
- 33) PROPORTIONAL MODE CALORIMETERS OF THE TPC FACILITY.  
By C.D. Buchanan, M. Chronoviat, J.M. Hauptman, R.I. Koda, J. Kubic, D.A. Park, J. Spahn, D.H. Stork, W.E. Slater, H.K. Ticho, M. Alston-Garnjost, M. Wayne, R.F. Van Daalen Wetters (UCLA), A. Barbaro-Galtieri, A.V. Barnes, A. Bross, W.C. Carithers, O. Chamberlain, A.R. Clark, O.I. Dahl, C.T. Day, P. Delpierre, K.A. Derby, P.H. Eberhard, D.L. Fancher, B. Gabioud, J.W. Gary, N.J. Hadley, B. Heck, H.J. Hilke, W. Hofmann, J.E. Huth, H. Iwasaki, R.W. Kenney, L.T. Kerth, S.C. Loken, G.W. London, G.R. Lynch, R.J. Madaras, R.M. Majka, J. Mallet, P.S. Martin, J.A.J. Matthews, A. Pevsner, W.M. Zhang, B.A. Barnett, B.J. Blumenfeld, C.Y. Chien, J. Hylan, L. Madansky, G.J. Vandalen (UC, Riverside), D.H. Badtke, J.A. Bakken, K.K. Kwong, J.G. Layter, C.S. Lindsey, S.O. Melnikoff, B.C. Shen (Tokyo U.), R.R. Kofler, M.E. Zeller (Yale U.), T. Fujii, T. Kamae, K. Maruyama, N. Toge, M. Yamauchi (Johns Hopkins U.), H. Aihara, J. Chiba, H. Fujii, H. Videau, W.A. Wenzel (LBL, Berkeley), W. Gorn, G. Shapiro, M.D. Shapiro, M.L. Stevenson, M. Urban, R. Van Tyen, M. Pripstein, P.R. Robrish, M.T. Ronan, R.R. Ross, F.R. Rouse, J.N. Marx, W. Moses, P. Nemethy, D.R. Nygren, P.J. Oddone. 1982.  
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- 34) DETERMINATION OF THE ANGULAR AND ENERGY DEPENDENCE OF HARD CONSTITUENT SCATTERING FROM  $\pi^0$  PAIR EVENTS AT THE CERN INTERSECTING STORAGE RINGS.  
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- 35) A MUON DETECTION SYSTEM FOR THE PEP-4 FACILITY.  
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- 36) GEIGER MODE CALORIMETER FOR PEP-4.  
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- 37) SEARCH FOR CHARGE  $(4/3)$  E PARTICLES PRODUCED IN  $E^+ E^-$  ANNIHILATIONS.  
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- 38) CHARGED HADRON PRODUCTION IN  $E^+ E^-$  ANNIHILATION AT 29-GEV.  
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- 39) PERFORMANCE OF THE HEXAGONAL CALORIMETER AT PEP-4.  
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- 40)  $\Phi$  MESON PRODUCTION IN  $E^+ E^-$  ANNIHILATIONS AT 29-GEV.  
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- 42) PROMPT ELECTRON PRODUCTION IN  $E^+ E^-$  ANNIHILATIONS AT 29-GEV.  
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- 43) CHARACTERISTICS OF PROTON PRODUCTION IN JETS FROM  $E^+ E^-$  ANNIHILATION AT 29-GEV.  
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- 45) TAU LEPTON BRANCHING FRACTIONS.  
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- 47) OBSERVATION OF STRANGENESS CORRELATIONS IN  $E^+ E^-$  ANNIHILATION AT  $S^{**}(1/2) = 29$ -GEV.  
By TPC/Two Gamma Collaboration (H. Aihara et al.).  
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- 48) EVIDENCE FOR THE  $F^*$  MESON.  
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- 53) TESTS OF MODELS FOR PARTON FRAGMENTATION USING THREE JET EVENTS IN  $E^+ E^-$  ANNIHILATION THE  $S^{**}(1/2) = 29$ -GEV.  
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- 54) TESTS OF MODELS FOR QUARK AND GLUON FRAGMENTATION IN  $E^+ E^-$  ANNIHILATION  $S^{**}(1/2) = 29$ -GEV.  
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- 61) BARYON PRODUCTION IN E+ E- ANNIHILATION AT  $S^{**}(1/2) = 29$ -GEV: CLUSTERS, DIQUARKS, POPCORN?  
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- 62) CHARGED D\* MESON PRODUCTION IN E+ E- ANNIHILATION AT  $S^{**}(1/2) = 29$ -GEV.  
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1114) Measurement of differential production cross section for  $Z/\gamma^* \rightarrow \text{bosons}$  in association with jets in  $pp$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$   
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1116) Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$   
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1124) Measurement of the ZZ production cross section and  $Z \rightarrow \ell+\ell-\ell'+\ell'-$  branching fraction in pp collisions at  $\sqrt{s}=13$  TeV  
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1126) Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets  
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1127) Search for lepton flavour violating decays of the Higgs boson to  $e\tau\tau$  and  $e\mu$  in proton-proton collisions at  $\sqrt{s}=8$  TeV  
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1134) Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at  $\sqrt{s}=7$  and 8 TeV

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1153) Measurement of the  $t$ - $t$ bar production cross section in the e-mu channel in proton-proton collisions at  $\sqrt{s} = 7$  and 8 TeV  
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1154) Search for heavy Majorana neutrinos in  $e\bar{e}t + \text{jets}$  and  $e\mu t + \text{jets}$  events in proton-proton collisions at  $\sqrt{s}=8$  TeV  
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CDF Collaboration (Timo Antero Aaltonen (Helsinki U. & Helsinki Inst. of Phys.) et al.).  
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CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1160) Measurement of the  $Z\gamma \rightarrow \nu\nu\gamma$  production cross section in pp collisions at  $\sqrt{s}=8$  TeV and limits on anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  trilinear gauge boson couplings  
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1171) Measurement of the  $B_c^\pm$  Production Cross Section in  $pp^-$  Collisions at  $\sqrt{s}=1.96$  TeV  
CDF Collaboration (Timo Antero Aaltonen (Helsinki U. & Helsinki Inst. of Phys.) et al.).  
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1176) Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at  $\sqrt{s}=7$  and 8 TeV  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1181) Event generator tunes obtained from underlying event and multiparton scattering measurements  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1182) Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at  $\sqrt{s}=8$  TeV  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1183) Measurement of spin correlations in  $tt^-$  production using the matrix element method in the muon+jets final state in pp collisions at  $\sqrt{s}=8$  TeV  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1185) Search for a low-mass pseudoscalar Higgs boson produced in association with a  $b\bar{b}$  pair in pp collisions at  $\sqrt{s}=8$  TeV  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1186) Measurement of top quark polarisation in t-channel single top quark production  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1187) Search for excited leptons in proton-proton collisions at  $\sqrt{s} = 8$  TeV  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1188) Reconstruction and identification of  $\tau$  lepton decays to hadrons and  $\nu\tau$  at CMS  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1189) Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into  $\tau$  leptons in pp collisions at  $\sqrt{s}=8$  TeV  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
Published in Phys.Lett. B754 (2016) 59

1193) Measurement of  $t\bar{t}$  production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at  $\sqrt{s}=8$  TeV  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1194) Measurement of long-range near-side two-particle angular correlations in pp collisions at  $\sqrt{s}=13$  TeV  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1199) Search for the production of an excited bottom quark decaying to  $tW$  in proton-proton collisions at  $\sqrt{s}=8$  TeV

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
Published in JHEP 1601 (2016) 166

1200) Measurement of the  $t\bar{t}$  production cross section in the all-jets final state in pp collisions at  $\sqrt{s}=8$  TeV

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1201) Search for  $W' \rightarrow tb$  in proton-proton collisions at  $\sqrt{s}=8$  TeV

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1202) Search for vector-like charge  $2/3$   $T$  quarks in proton-proton collisions at  $\sqrt{s} = 8$  TeV

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1203) Measurement of the top quark mass using proton-proton data at  $\sqrt{s}=7$  and  $8$  TeV

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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1205) Search for single production of scalar leptoquarks in proton-proton collisions at  $\sqrt{s} = 8$  TeV  
CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.).  
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