

Barry Jay BLUMENFELD

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Education:

- 1974 Ph.D. Columbia University, New York, N.Y.
Ph.D. Thesis: Observation of π^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 π^0 MESONS WITH LARGE TRANSVERSE MOMENTUM IN HIGH-ENERGY PROTON-PROTON COLLISIONS.
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- 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.
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- 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.).
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Published in Nucl.Instrum.Methods 117, 501, 1974
- 7) OBSERVATION OF π^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 π^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.).
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- 9) CORRELATIONS BETWEEN TWO LARGE TRANSVERSE MOMENTUM π^0 MESONS AT THE CERN ISR.
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- 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.
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- 13) K0 AND LAMBDA PRODUCTION AT THE CERN ISR.
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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).
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- 15) A MEASUREMENT OF SINGLE ELECTRONS, ELECTRON PAIRS, AND ASSOCIATED PHENOMENA, IN PROTON-PROTON COLLISIONS AT THE CERN ISR.
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18) A STUDY OF FINAL STATES CONTAINING HIGH $P(T)$ π^0 's AT THE CERN ISR. With A. L. S. Angelis, et al.

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

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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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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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25) NEUTRINO OSCILLATION EXPERIMENT AT BNL.

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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.
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- 29) PERFORMANCE OF A DRIFT CHAMBER SYSTEM FOR THE TIME PROJECTION CHAMBER DETECTOR FACILITY AT PEP.
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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.
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- 34) DETERMINATION OF THE ANGULAR AND ENERGY DEPENDENCE OF HARD CONSTITUENT SCATTERING FROM π^0 PAIR EVENTS AT THE CERN INTERSECTING STORAGE RINGS.
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- 35) A MUON DETECTION SYSTEM FOR THE PEP-4 FACILITY.
By TPC/Two Gamma Collaboration (J.A. Bakken et al.). 1983.
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- 39) PERFORMANCE OF THE HEXAGONAL CALORIMETER AT PEP-4.
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- 43) CHARACTERISTICS OF PROTON PRODUCTION IN JETS FROM $E^+ E^-$ ANNIHILATION AT 29-GEV.
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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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1168) Measurement of the forward-backward asymmetry in low-mass bottom-quark pairs produced in proton-antiproton collisions
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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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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