Theoretical & Experimental Studies of Elementary Physics

Award: DE-FG02-91ER40685
University of Rochester
Department of Physics and Astronomy

FINAL REPORT
11/1/1991 - 7/15/2012

Date submitted: September 28, 2012

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Submitted to: DOE/Office of Science Program Office: Office of High Energy Physics

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Executive Summary

High energy physics has been one of the signature research programs at the University of Rochester for over 60 years. The group has made leading contributions to experimental discoveries at accelerators and in cosmic rays and has played major roles in developing the theoretical framework that gives us our “standard model” of fundamental interactions today. This award from the Department of Energy funded a major portion of that research for more than 20 years. During this time, highlights of the supported work included the discovery of the top quark at the Fermilab Tevatron, the completion of a broad program of physics measurements that verified the electroweak unified theory, the measurement of three generations of neutrino flavor oscillations, and the first observation of a “Higgs like” boson at the Large Hadron Collider. The work has resulted in more than 2000 publications over the period of the grant.

The principal investigators supported on this grant have been recognized as leaders in the field of elementary particle physics by their peers through numerous awards and leadership positions. Most notable among them is the APS W.K.H. Panofsky Prize awarded to Arie Bodek in 2004, the J.J. Sakurai Prizes awarded to Susumu Okubo and C. Richard Hagen in 2005 and 2010, respectively, the Wigner medal awarded to Susumu Okubo in 2006, and five principal investigators (Das, Demina, McFarland, Orr, Tipton) who received Department of Energy Outstanding Junior Investigator awards during the period of this grant.

The University of Rochester Department of Physics and Astronomy, which houses the research group, provides primary salary support for the faculty and has waived most tuition costs for graduate students during the period of this grant. The group also benefits significantly from technical support and infrastructure available at the University which supports the work.

The research work of the group has provided educational opportunities for graduate students, undergraduate students and high school students and teachers. Seventy-two graduate students received a Ph.D. in physics for research supported by this grant.

Introduction

The University of Rochester Department of Physics and Astronomy has remained committed to its historic strength in high energy physics during the period of this award. As faculty on the grant have retired or left the University, we have continued to recruit in both theoretical and experimental particle physics to maintain a strong group.

The group has completed a large number of experimental and theoretical research programs during the period of this grant. The remainder of this report contains brief summaries of the major activities carried out by the principal investigators during the period of this grant.

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1 CDF (Bodek, McFarland, Tipton)

Bodek was in charge of the construction of the CDF plug-upgrade hadron calorimeters, Tipton was in charge of the construction and maintenance of the cooling system of the silicon vertex detector, and McFarland's group developed the Level-3 trigger, data logger and the event feed to the online monitoring for the experiment. The CDF plug upgrade calorimeter was the first large scale hadron calorimeter to use tile-fiber technology. Bodek and Haelen invented a new method to construct large multi-tile assemblies on an industrial scale (called megatiles). Bodek's group (Sakumoto) was in charge of the maintenance and calibration of the calorimeters, as well as CDF operations. McFarland served for a number of years as the leader of CDF offline software and data processing.

Tipton and Watts played a major role in the discovery of the top quark, and Tipton and Koehn measured the heavy flavor content of quark jets. Tipton and Tollefson performed the first measurement of the mass of the top quark. Tipton, Cassada and Coca measured the top pair production cross section and searched for new particles decaying to top-antitop pairs. Tipton and Ivanov searched for anomalous kinematics in dilepton events from top-antitop events. Tipton and Eusebi, and Bodek and G. B. Yu searched for the production of charged Higgs boson in top decays in different Higgs decay mode. McFarland and Demers measured the branching ratio of the top quark to tau leptons, and Bodek and Pillai searched for the production of Z' bosons using mass distribution of Drell-Yan events and published limits on quark-lepton compositeness, and Bodek and Baur published a paper on signatures of Z' boson in the forward-backward asymmetry of Drell-Yan pairs.

Bodek pioneered a series of measurements in hadron colliders that were used to provide information on parton distribution functions. Bodek and Dixon performed the first precise measurement of the W -lepton production asymmetry which was the first measurement of the ratio of down to up in hadron colliders. It was also the first hadron collider data to be incorporated into fits for Parton Distribution Functions (PDFs). Later Bodek and Fan published a new technique to measure the W asymmetry in the forward direction beyond the tracking region of the central drift chamber. The technique involved extrapolating the tracks from the silicon vertex detector to the electromagnetic shower counter and using the position of the centroid of the EM shower to determine the charge of electrons and positrons. The technique was extended to the measurement of the production of Z bosons as a function of rapidity to high rapidity (Bodek and J. Liu and later Bodek and J. Han). These measurements of the rapidity distribution of Z boson were incorporated into PDF fits. In addition, Bodek and Sakumoto measured the transverse momentum distribution of Z bosons.

Bodek, McFarland, and B.Y. Han published a new technique to unfold the W decay lepton asymmetry to extract the W production asymmetry. The results of the unfolded asymmetry are the only W asymmetry data that are currently used in NNLO PDF fits (because these inclusive results do not require additional assumptions on modeling W transverse momentum distributions). Bodek, Sakumoto and J. Han made the first measurement of angular distributions in the production of Z bosons and determined the relative contribution

of quark-antiquark annihilation and gluon-quark Compton process to Z boson production.

Currently, Bodek and Sakumoto are working the analysis of the complete 10 fb^{-1} CDF Tevatron data sets in the single and dilepton channel. One of the goals is to extract a precise measurement of the electroweak mixing angle from the forward-backward asymmetry in Drell-Yan events. Bodek published a new event weighting technique to measure the asymmetry that improves the statistical precision of the measurement, and for which most of the systematic errors cancel. Bodek and Sakumoto also propose to repeat all of the above measurements with W and Z bosons with the full Tevatron sample. The large statistical samples will improve the precision of the measurements of d/u . In addition, a measurement of the ratio of the W and Z lepton rapidity distribution will result in an improved measurement of the strange sea.

2 D0 (Demina, Ferbel, Slattery)

Rochester physicists played important roles in the Run II Upgrade of the D0 detector, including supplying the Visible Light Photon Counters (VLPCs) used to read out the Central Fiber Tracker (CFT) and central preshower detectors, co-leading the development of the Run II Online system, developing and testing the silicon sensors for the Layer 0 silicon tracker, and designing and installing the Analog Front End boards for the CFT readout. Rochester Senior Scientist, G. Ginther, served as D0's Technical Integration Coordinator from 2004-12.

At the beginning of Run II Demina and Khanov developed tracking and b-tagging algorithm for D0 data reconstruction. The main thrust of the Rochester analysis activities was the investigation of top quark. Demina, Khanov and Pleier measured top-antitop production cross section. SJ Park under Demina's supervision searched for an admixture of supersymmetric top quark production in top sample. In Run I Ferbel's group (Canelli and Estrada) developed an innovative matrix element algorithm to measured top quark properties including its mass. This approach was widely adopted in the field and extended to searches for new particles including Higgs. In 2005-2009 Demina led the D0 group on top quark mass measurements and supervised Rochester student C. Garcia in his work on the subject. Analysis of forward-backward asymmetry in top production performed by Demina, Harel and Orbaker yielded a 3 sigma discrepancy with the Standard Model prediction.

3 CMS (Bodek, Demina, Slattery, Tipton)

Bodek's group (Bodek, and senior scientists de Barbaro and Budd) was in charge of the construction of the tile-fiber optical detectors (megatiles) for the CMS hadron calorimeter (HCAL). The process for the construction of megatile was developed at Rochester when we built the plug hadron calorimeter for CDF. In parallel, the groups participated in numerous test beam runs that tested and mapped the response of a HCAL module in a hadron beam at CERN. Slattery and Ginther and Lobkowicz were in charge of the construction of the large and complex motion table to support and map the test beam HCAL module. Upon

the completion of the construction of the optical elements, Dr. de Barbaro moved to CERN and was in charge of the installation of the megatiles in the CMS detector. After serving as deputy project manager of HCAL, de Barbaro was appointed as HCAL project manager.

Since 2000 Demina has served as a US project manager deputy, and for the period of 2010-2012 as a project manager, for the Silicon Tracker. Rochester was responsible for silicon sensor quality assurance (Korjenevski), shipping (Tipton) and long term testing of the rods (Gotra). The group played a key role in the detector commissioning at CERN working on Monte Carlo tuning (Gotra) and low level cluster reconstruction (Betchart).

Zielinski and Harel were responsible for jet algorithms and jet ID. As a result, Rochester played a key role in the search for contact interaction using dijet centrality ratio (thesis of D. Miner). After the start of the LHC run Demina and Flaetcher were responsible for the commissioning of missing energy for SUSY measurements. As a result, the first search for SUSY in the LHC was the one using the so-called α_T technique in an all-hadronic mode (Betchart, Flaetcher, Demina). Now Garcia-Bellido and Eshaq continue to apply this method to update SUSY searches with a larger statistics.

Bodek and Han have been working on precision electroweak physics and QCD studies using leptonic decays of Z/W bosons and Drell-Yan events in the 2010, 2011 and 2012 data. They developed a new data technique to correct muon momenta for misalignment and scale. These corrections, which are called *Rochester momentum corrections* are necessary for precision SM studies. They remove all bias in the measurement of positive and negative muons as a function of η and ϕ , and reduce the contributions from muon momentum measurement to the error in the Higgs mass from 0.4% to 0.1%. They also improve the mass resolution for 1 TeV muons from 8% to 4%. Bodek and Han have applied their experience on CDF to CMS measurements of Z boson rapidity distribution and angular distribution, W asymmetry, Drell-Yan mass and rapidity distributions, W/Z ratios, and of the Drell-Yan forward-backward asymmetry, and search for Z' bosons and deviations from the standard model in the mass and angular distributions of dileptons. First results from these studies have already been published.

Using angular distributions in two Z -boson mode Covarelli and Demina performed a search for spin 2 Kaluza-klein graviton. The same technique is used for Higgs spin measurement. Demina, Covarelli, Garcia-Bellido and Goldenzweig are searching for VBF Higgs production in ZZ to two leptons, two quarks mode.

Betchart and Demina are measuring $t\bar{t}$ charge production asymmetry in CMS.

4 E706 (Ferbel, Slattery)

Fermilab experiment E706 was approved in 1981 as one of the initial round of Tevatron fixed-target experiments. It was a second-generation study of neutral meson and direct-photon production by pions and protons on a variety of nuclear targets, including hydrogen. The E706 apparatus featured a 3-meter diameter liquid argon calorimeter to detect and measure photons and electrons and a large aperture multi-particle spectrometer to measure charged

particles produced in association with direct-photons and neutral pions. P. Slattery served as Spokesperson for the experiment.

E706 had an engineering run in 1988, and two primary physics runs, the first in 1990 and the second in 1991-92. Results from E706 have had a significant impact on the development of perturbative QCD by demonstrating that conventional calculations of both neutral meson and direct-photon production, even at next-to-leading order (NLO), cannot reproduce the measured results. The discrepancy has been interpreted as being due to soft gluon processes not included in NLO calculations.

5 ATLAS (Slattery)

In 1992, following the last data run of E706, Slattery, together with NSF-funded physicist F. Lobkowicz, joined the GEM experiment at the SSC, where Rochester was assigned several major responsibilities, including supplying the hadronic modules for the proposed liquid krypton barrel calorimeter, and leading GEM's Fermilab-based test beam effort. After cancellation of the SSC, Slattery and Lobkowicz joined ATLAS at the CERN LHC, where Rochester provided the conceptual design for the ATLAS barrel cryostat and also completed a successful program of R&D to develop an innovative high-density signal feed-through for all the ATLAS cryostats. In 1998, as part of a reorganization of Rochester's HEP activities following Lobkowicz's death, Slattery switched from ATLAS to CMS, where he helped design, construct and commission a large, computer controlled, motion table that has been extensively used in the CERN test beam program to study and calibrate elements of the CMS detector. He also joined D0 at that time.

6 AMY (Bodek, Olsen)

Rochester led the construction of the AMY e^+e^- experiment at the TRISTAN accelerator in Japan. Prof. Olsen served as the AMY spokesperson. Olsen led the construction of the AMY central drift chambers. Bodek led the construction of the muon chambers, gas system, muon scintillators and the online electronics. During this grant period several PhD theses on AMY were supervised by Bodek and Olsen. These include studies of the forward-backward asymmetry in the production of dileptons (Bodek, C. Vellisaris), studies of photon-photon interactions (Bodek, B. J. Kim), extraction of α_s from events with jets (Bodek, Y. K. Lee), measurement of the hadronic cross section (Bodek, T. Kumita), measurements of multiplicities (Olsen, H. W. Zheng), studies of four lepton final states (Olsen, M. Y. Hong), and studies of the properties of quark versus gluon jets (Olsen, Young Kee Kim).

7 NuTeV (Bodek, McFarland)

The main goal of the NuTeV experiment was to measure charged and neutral cross-sections at high neutrino energies, from 20 to 400 GeV, in order to determine parton distributions and to test the predictions of the neutral to charged current ratio in the electroweak theory. The latter test is sensitive to possible unknown interactions beyond those of the standard model. Construction of the new beamline and refurbishing of the detector took place between 1994-1996 and the detector ran from 1996-1997. Rochester had responsibility for procurement and testing of photomultipliers, the design of the veto wall, the electroweak data analysis (McFarland) and the structure function analysis (Bodek, postdoc Harris, student Un-Ki Yang). Un-Ki Yang received the URA Fermilab best thesis award for his work on structure functions. Bodek and deBarbaro searched for neutral heavy leptons, and Bodek and student Avvakumov completed a search for high δm^2 $\nu_\mu \rightarrow \nu_e$ oscillations. The electroweak analysis resulted in a paper with over 500 citations, and a Tanaka dissertation award for student Sam Zeller who collaborated extensively with McFarland on the work.

8 MINERvA (Bodek, Manly, McFarland)

MINERvA is an experiment designed to study interactions of neutrinos and anti-neutrinos with energies between 1.5 and 15 GeV. Improved knowledge of these interactions is a critical input for current and future neutrino oscillation experiments. The data also provides a laboratory for strong interaction processes which cannot be calculated from first principles in our current frameworks, but which can be modeled by various effective theories which give insight into the phenomenology of these complex strongly bound systems.

The University of Rochester group wrote the original proposal for MINERvA in 2002 which included the basic detector design. Prof. McFarland has served as co-spokesperson since the formation of the collaboration. The University of Rochester group played many key roles in the construction of the experiment, including prototyping of the detector, construction of the optical fiber systems, development of the data acquisition system and final assembly of the modules and the detector. The detector construction project won the Secretary of Energy's Award of Achievement in 2011. After detector construction finished in 2010, postdoc Gabriel Perdue and then senior scientist Howard Budd have served as run coordinators during the operations phase.

The University of Rochester group also plays key roles in the data analyses completed to date. Graduate student Jesse Chvojka's thesis on the process $\bar{\nu}_\mu p \rightarrow \mu^+ n$ was the first completed cross-section measurement from the experiment in 2011. Postdoc Gabriel Perdue is currently the deputy analysis coordinator for the experiment, and Prof. Manly leads the electromagnetic final states analysis group. Prof. Bodek is leading the flux extraction using an improved low ν method.

9 T2K (Manly, McFarland)

Our group began an involvement in T2K as the concept for the experiment was being formed in 2001. Our initial efforts focused on development of the near detector, ND280, and Prof. McFarland was one of the initial co-conveners of the first T2K near detector working group. Rochester played important roles in designing and constructing parts of the near detector, particularly the π^0 detector (P0D). Most of the electronics for the near detector is based on the design of the MINERvA electronics, the fiber readout and mirroring scheme was prototyped and developed by Rochester originally in the context of MIENRvA and P0D uses scintillator extrusions developed for MINERvA. In this way, we were able to realize synergies between our MINERvA and T2K construction efforts which ultimately led to significant savings and reduced technical risk for the US T2K project whose early construction lagged MINERvA by a year. Melanie Day made the first measurement of the electron neutrino content of the T2K beam as her thesis, and this was an important supporting measurement for the initial indications that the rate $\nu_\mu \rightarrow \nu_e$ was large from T2K in 2011.

Much of our current effort focuses on modeling of neutrino reaction cross-sections for T2K's oscillation analyses. Prof. McFarland co-convenes the T2K group responsible for the model and for fitting data to the model (Neutrino Interactions Working Group, or NIWG), and most of the active Rochester personnel on T2K work in this area which has obvious synergies with the work on MINERvA. Prof. Manly's measurements of pion electroproduction on different nuclear targets, described below, are one of the important constraints that go into this cross-section model.

10 JUPITER (Bodek, Manly)

The purpose of the JUPITER program (Bodek and Manly) is to use electron scattering data measured at Jefferson lab to study vector current processes of interest for one-few GeV neutrino scattering. This data can be used to build models of neutrino cross-sections and provide a theoretical framework for the interpretation of MINERvA data.

Bodek is the co-spokesperson of the Hall C component of the JUPITER program (JLab experiments E04-001, JLab E02-109). These two electron scattering experiments measure separated vector structure functions, F_{2p} , F_{2n} , R_p , R_n for free and bound nucleons in the quasielastic, resonance and inelastic regions. The data is used to determine the vector component of the structure function in neutrino scattering experiments. These new data taken on nuclear targets are expected to reduce the errors on the vector cross sections by a factor of 10.

Manly is leading the Hall B component of the JUPITER program which makes use of the full acceptance CLAS experiment data. Hyupwoo Lee, working with Prof. Manly, is producing differential pion production cross sections on different nuclear targets for his Ph.D. thesis project. These results will be useful for tuning models of neutrino resonance production as well providing constraints on backgrounds and nuclear final state interactions in neutrino experiments

11 Neutrino Interaction Phenomenology (Bodek, McFarland)

Bodek’s work in electron scattering and neutrino interaction phenomenology provide models for neutrino interactions Monte Carlo (such as GENIE). These include the Bodek-Ritchie model for Fermi motion, and the Bodek-Yang model for structure functions in the inelastic region.

Bodek was the spokesperson of SLAC experiment E140, which yielded very precise measurement of separated structure functions, F_2 and R . Bodek’s parametrization of R is used in the Bodek-Yang model. The precise measurements of SLAC E140, were used to do a combined analysis of all electron scattering data at SLAC, which were cross normalized to SLAC E140 (Bodek and Rock). The BCDMS muon data was then cross normalized to the SLAC data to provide structure data over a very wide range of Q^2 .

Bodek and Yang’s analysis of electron scattering data determined that the higher twist corrections that are needed to describe the SLAC data within a NLO model were mostly due to the missing QCD NNLO terms. The Bodek-Yang model that describes all of the structure functions from $Q^2 = 0$ to very high Q^2 uses a new scaling variable to account for target mass and the missing higher order terms, in combination with K factors at very low Q^2 .

Recently, Bodek and Budd used the JUPITER data for quasielastic electron scattering on nuclear targets to extract a parametrization of the Transverse Enhancement which is observed in electron scattering. This enhancement is expected from meson exchange currents. If this transverse enhancement is included in the theoretical predictions for quasielastic scattering in neutrino reactions, it resolves the long standing discrepancy between MiniBooNE data and higher energy neutrino experiments, thus resolving what has been called “the axial mass anomaly”.

12 Light-by-Light Scattering at SLAC E-144 (Melissinos)

In the early 1990s we carried out an experiment at SLAC to examine non-linearities in electromagnetic scattering. The experiment was a collaboration between Rochester-Princeton-SLAC and the Un. of Tennessee. A high intensity laser beam was back-scattered from the ~ 50 GeV electrons in the Final Focus Test Beam. The intensity at the focus (diameter $\sim 10 \mu\text{m}$) of the laser pulse (energy ~ 1 J) and of duration 1-2 ps was of order $I = 10^{18}$ W/cm². This corresponds to an electric field at the focus $E_L \sim 2 \times 10^{10}$ V/cm. However in its rest frame the electron ($\gamma \sim 10^5$) sees an electric field $E^* = 2\gamma E_L \sim 4 \times 10^{15}$, which is of order of 1/3 of the critical field strength, $E_c = (m^2 c^3)/(e\hbar) = 1.3 \times 10^{16}$ V/cm. At such field strength we expect the vacuum to break down spontaneously by the production of e^+e^- pairs, as first shown by Schwinger¹. Note the importance of the highly relativistic

¹Phys. Rev., **82**, 664 (1951)

electron beam in increasing the effective laser intensity by a factor of 10^{10} , which can not be achieved in the laboratory, even in future high power lasers.

At these high electric fields, non-linear effects are dominant, and drive multi-photon processes. We studied Compton scattering involving the absorption of up to 5 photons from the laser field. On occasion the backscattered high energy photon interacted again within the laser focus, with at least 4 photons, to produce an e^+e^- pair. A precise description of the observed process is “photon-multiphoton inelastic scattering”, and the rate agrees exactly with the perturbative calculation, but also with the non-perturbative calculation of Schwinger; this because the electric field is near the critical value, but neither well below nor much higher than E_c . This is the familiar case where the same physical process can be interpreted in two different frameworks.

Our SLAC experiment was the first time that critical field was reached in the laboratory and that the “breakdown of the vacuum” was demonstrated. It was also the first time that light-by-light scattering in the absence of matter (in the vacuum) was observed in a laboratory experiment. Finally, it also provided evidence for the treatment of the non-linear aspects of the electromagnetic field at energies much higher than in the conventional quantum optics experiments.

13 Axion Searches (Melissinos)

Our group was the first to carry out a search for cosmic axions by their conversion into microwave photons in a cavity placed in a magnetic field, as proposed by P.Sikivie. The experiment was carried out at Brookhaven National Laboratory in the late 1980s, and covered the range of axion masses $4 \leq m_a \leq 20 \mu\text{eV}$ without observing a signal, but not with sufficient sensitivity to exclude the theoretical predictions on the strength of the axion coupling to two photons, given the expected local axion density. While considerable effort has been invested since then to improve these limits (the ADMX project) the Rochester-Brookhaven-Fermilab results represent, even today, the widest coverage in axion mass in the μeV range.

In the early 1990s we initiated a new experiment to create axions using optical techniques. In this case the polarization vector of the light traversing a magnetic field is rotated if axions with $m_a < \hbar\omega$ are produced, or becomes elliptically polarized when $m_a > \hbar\omega$. In spite of the negative results, such experiments are still being continued at other laboratories, even at Fermilab, but have not improved on the limits set by the series of the Rochester-Brookhaven-Fermilab-Trieste experiments. In general the sensitivity that can be reached in optical experiments is much less than that obtained from the search for cosmic axions, but the optical experiments have the advantage that they do not demand the presence of an axion background and they cover a broad mass range in a single measurement. Finally, we mention the first search for axions produced in the sun, that would have typical energies in the X-ray region, carried out by our group at Brookhaven.

14 Novel Techniques in Accelerator Physics (Melissinos)

Our group participated in the establishment and operation in the mid 1990s of the “A0 Test Facility” at Fermilab. The facility was based on a prototype low emittance electron accelerator. The accelerator consisted of an rf photoinjector followed by a 9-cell Niobium superconducting cavity operating at 1.3 GHz. The final electron energy was ~ 18 MeV. The photoinjector was driven by short UV pulses of duration few to 10 ps, in a train of 1-1000 pulses spaced $1 \mu\text{s}$ apart, so as to match the specifications of the TESLA design for an e^+e^- collider. The cathode was Cs_2Te and the charge yield ~ 10 nC, or 6×10^{10} electrons per pulse. Rochester built, installed and operated the drive laser, and participated in many of the experiments carried out at the A0 facility.

Most notable among the experiments was the first demonstration of electro-optic sampling of a high energy electron beam (M.Fitch), now an important diagnostic for short pulse intense electron beams. Other experiments involved the production of “flat beams” and several diagnostics, including the use of transition radiation. We also participated in the completion and commissioning of the electron cooling of the antiproton beam in the Fermilab accumulator (S.Seletskiy).

Rochester’s involvement, and the contribution of our graduate students, were a key factor in the establishment of the A0 test facility, and its operation over the next decade.

15 Theoretical Work of Ashok Das

During the grant period his research has focussed around many areas in theoretical physics including quantum field theory, field theory at finite temperature, integrable models, string theory and even some works on phenomenology. The works were done in collaboration with colleagues from various countries as well as with students and post doctoral fellows here at the University of Rochester. During this period, his research has led to over 200 published papers, about 30 conference reports, 13 published books and several hundred invited talks at various institutions. This has also led to several Ph. D. theses of graduate students.

16 Theoretical Work of C. Richard Hagen

During the time period covered by this report, Hagen has pursued topics in such diverse areas as Aharonov-Bohm and Aharonov-Casher effects, Galilean relativity, two dimensional field theories and the Casimir effect. Particularly important in the first category are his results presenting the first correct treatment of the spin-1/2 Aharonov-Bohm effect and the demonstration of equivalence between the Aharonov-Casher effect and the spin-1/2 Aharonov-Bohm effect. These results set the standard for ongoing research in this field. He has used Galilean relativity to analyze some formal issues as well as to provide a framework for Aharonov-Bohm calculations in which a coulomb potential is also considered. His work on two dimensional

field theory culminated in formulating and solving the most general soluble field theory which yields in various limits ALL the previously known soluble cases (Thirring model and Schwinger model to name just two). His work on the Casimir effect served to resolve some technical issues which existed in many of the early calculations in this subfield. Finally, his work with Nicholas Bigelow resolved issues surrounding a claim of superluminal wave propagation.

17 Collider Phenomenology (Orr)

The Collider Phenomenology group, led by Professor Lynne H. Orr, has covered a number of topics within and beyond the Standard Model (SM) at the Fermilab Tevatron, CERN LHC, and a future high energy electron-positron collider. In top quark physics, our primary focus, we have studied the effects of Quantum Chromodynamics (QCD), including the effects of gluon radiation on measuring top properties as well as computing higher order QCD corrections to top production and decay processes. We have also investigated the measurability of anomalous couplings to top quarks of photons and Z bosons at the Tevatron and LHC. In other work, we have considered so-called boosted tops, which are produced at high energies and can be difficult to identify. We found methods to significantly improve the chances of discovering new heavy particles in the $t\bar{t}$ channel at the LHC.

We have also computed full next-to-leading-order QCD corrections to production of $t\bar{t}$ in association with a Higgs boson at the Tevatron and LHC. This production mode will be very important for determining the strength of the Higgs coupling to the top quark, and in particular whether this coupling deviates from its expected SM value. Also in electroweak theory, our group contributed to the next-to-leading order electroweak calculation of W^+W^- production at LEP, and the incorporation of this calculation in the publicly available computer program RACOONWW. In pure QCD we have improved on the standard calculation of the solution of the Balitsky-Fadin-Kuraev-Lipatov (BFKL) equation for summation of soft gluons in forward jet production, by constructing a Monte Carlo generator that incorporates kinematic constraints on the process.

Our work in collider phenomenology beyond the SM has contributed to several kinds of physics models. In Supersymmetry (SUSY), we have identified a simple parameterization for SUSY models which do not incorporate the discrete symmetry R-parity, and explored the resulting phenomenology. We have contributed to the SUSY Madgraph program. We have also investigated the breakdown of the narrow width approximation in production and decay of SUSY particles. This common approximation is widely used in studies, but is generally invalid for the heavy particles produced in SUSY. In Little Higgs models, we have studied the phenomenology of a new heavy neutral gauge bosons, including placing new limits from direct searches and calculating the tree-level decay width and branching ratios the Littlest Higgs. We have also studied the production via SM gauge-boson fusion and decay of gauge bosons in the Simplest Higgs model. Finally, in deconstructed Higgsless models we have also studied production of new heavy gauge bosons via gauge-boson fusion.

18 Theoretical Work of Susumu Okubo

Okubo's collaborations with Professors Kamiya and Elduque of Japan and Spain, respectively were initially concerned with Jordan algebras. Jordan algebras are intimately related to the theory of observables in quantum mechanics. He has constructed exceptional Lie superalgebras $D(2, 1; \alpha)$, $G(3)$, and $F(4)$ from triple systems related to quaternion and octonions. Okubo recently has been concentrating on mathematical physics with an emphasis on applications of non-associative algebras to physics. It has been known for some time that the octonion algebra satisfies the so called triality relation. More recently, he has shown that many algebras including the Lie algebra E_8 do possess similar properties together with S_4 -symmetry. He is pursuing the problem in more depth with A. Elduque of the University of Zaragoza in Spain, N. Kamiya of Aizu University in Japan and D. Mondac of Lund University in Sweden.

19 Theoretical Work of Sarada Rajeev

Rajeev's seminal work on the Skyrme model led him to a study of other quantum field theories, with an emphasis on gauge theories and an occasional foray into string theory. He has developed mainly geometrical methods that build on the large N limit and path integrals that apply as well to other areas of physics. The exact solution of two dimensional pure Yang-Mills theory and the determination of the quantum theory of hadrons (including baryon masses) in two dimensions were among the early results. Renormalization beyond perturbation theory was developed in several models of quantum mechanics and later, quantum field theory. Rigorous construction of renormalized path integrals were given to show that it is possible to make mathematical sense of divergent quantum theories. Soliton models of parton structure functions was an application of phenomenological interest. This work has led to a Finite Element Approach to quantum field theory based on Discrete Differential Geometry, which is a current research interest. This work has been published in over a hundred papers and 10 Ph. D. theses.

20 Education and Public Outreach

Launched in 1994, the Pre-College Experience in Physics (PREP) program is the only extensive program in science for high school girls in the Rochester area. PREP received initial funding from the U. S. Department of Energy's (now-terminated) Office of Science Education (1994-96), and the US-CMS collaboration has provided partial funding for the continuation of the program (since 1998). The all-day, 4-week summer program serves 24 high school students, and employs at least two women undergraduate or graduate students as instructors. Now entering its eighteenth year, PREP-CMS has involved about 375 young women in the Rochester community and 34 graduate and undergraduate instructors. Manly is the program director.

Bodek is the PI for the NSF Research Experience for Undergraduate and Research Experience for Teachers (REU/RET) program at Rochester. The NSF grant provides partial support for undergraduates to do particle physics research. Undergraduates who do not meet NSF eligibility requirements (US residents) are supported by the DOE grant. One of our REU undergraduates won the APS Apker award for best undergraduate thesis.

McFarland is the PI for Rochester QuarkNet program for high school teachers, who were trained to take data with cosmic ray telescopes and bring these detector to their high school. The PARTICLE (Physicists and Rochester Teachers Inventing CLassroom Experiments) program at the University of Rochester now is entering its tenth year. PARTICLE has trained 36 area teachers from 28 different schools in the use of cosmic ray detector for classroom research use. It maintains a lending library of these detectors, and provides support for participating classrooms. PARTICLE also maintains a 3m² continuously operating surface cosmic ray detector which has been taking data since 2005 and is used for high-school student research into long-term studies of cosmic ray rate variations with solar activity. In the recent past, PARTICLE teachers and students refurbished NuTeV scintillator panels into the hardware for MINERvA's veto wall. In summer 2010 and 2011, the program supported a team of nine teachers to develop lesson plans to use data streams from MINERvA of quasi-elastic scattering candidates and stopping muons to study elastic scattering kinematics and radioactive decay.

21 Graduate Student and Postdoc Training

21.1 PhDs in Experimental Particle Physics 1991-2012

Name	Ph.D Year	Thesis Expt.	Current Position/Expt.
R. Cameron	1992	Axions E840	Industry
C. Bamber	1992	Laser-Linac	National Research Council, Canada
T. Kumita	1992	AMY	RA INS, U. of Tokyo
Y.K. Li	1993	AMY	Industry, Hughes Aerospace
S. Durston-Johnson	1993	DZero	Sr. Lecturer Simon Frazer Univ.
N. Varelas	1994	FNAL-E706	Prof., U. of Illinois at Chicago

R. Roser	1994	FNAL-E706	Scientist, Fermilab
M. Dickson	1994	CDF	Scientist, MIT Lincoln Labs
J. Borders	1994	DZero	Analyst, Credit Suisse, N.Y.
R. Hirosky	1994	DZero	Assoc. Prof., U of Virginia
G. Watts	1994	CDF	Prof., U. of Washington
L. de Barbaro	1995	FNAL-E706	Scientist, Lucent Labs
B.J. Kim	1995	AMY	Asst. Scientist, University of Florida
C. Velissaris	1995	AMY	Lecturer, U. Central Florida
C. Cretsinger	1996	DZero	Patent Attorney, San Francisco
T. Kotseroglou	1996	SLAC/QED	Industry
S. Boege	1996	SLAC/QED	Scientist, Opt. Sys, Life Technologies
M. Pillai	1996	CDF	Industry, India
G. Osborne	1996	E706	Industry, Rochester
A. Fry	1996	FNAL/A0	Scientist, SLAC
K. Fatyga (NSF)	1996	DZero	retired
P. Koehn	1996	CDF	Research Staff, Inst. for Defense Analyses
E. Won	1996	DZero	Asst. Prof., Korea University
K. Tollefson	1997	CDF	Assoc. Prof., Michigan State University
D. Casey	1997	DZero	Faculty, St. John's College, Maryland
T. Koffas	1998	SLAC/QED	Asst. Prof., Carleton University
K.S. Hahn	1998	DZero	Lucent Industries, IL
M. Begel	1999	FNAL-E706	Scientist, Brookhaven Nat'l Lab.
D. Reis	1999	SLAC/QED	Assoc. Professor, Stanford University
J. Cassada	1999	CDF	U.S. Naval Aviator
M. Fitch ¹	2000	FNAL/A0	Researcher, Johns Hopkins Applied Physics Lab
J.B. Liu	2000	CDF	Completing MBA, U. of Toronto
U.K. Yang ²	2001	CCFR/NuTeV	Lecturer, University of Manchester
S. Avvakumov	2001	NuTeV	Industry, Finance
J. Estrada ³	2001	DZero	Scientist, Fermilab
M. Florencia Canelli ⁴	2003	DZero	Prof. Univ. of Zurich
Benjamin Kilminster ⁵	2003	CDF	Prof. Univ. of Zurich
Gregory Davis	2004	DZero	Research, Inst. for Defense Analyses
William Butler	2004	LIGO	Sr. Processing Eng., Intel, Portland, OR
Sarah Demers Konezny	2004	CDF	Asst. Prof., Yale U.
Andrew Ivanov	2004	CDF	Asst. Prof., Kansas State U.
Mircea Coca	2004	CDF	UR medical school
Alexander Khanov	2004	DZero	Asst. Prof. Oklahoma State
Doo Kee Cho	2005	DZero	RA, Brown University (DZero)
Sergei Seletskiy	2005	FNAL/A0	Scientist, Brookhaven Nat'l Lab, SSRL
Kwok ming (Leo) Chan	2006	DZero	RA, University of Notre Dame
Rodian Tikhoplav	2006	FNAL/A0	Industry
Phil Yoon	2007	FNAL/Accel	Industry
SuJung Park	2007	DZero	Industry
Carlos Garcia	2007	Dzero	Industry, Finance
Jiyeon Han	2008	CDF	RA, University of Rochester (CMS)

Stefanos Giampanis	2008	LIGO	RA, University of Wisconsin, Milwaukee
BoYoung Han	2008	CDF	Korea Atomic Energy Research Inst.
Jennifer Gimmell	2009	CDF	Asst. Prof., College of DuPage
Geumbong Yu	2009	CDF	RA Duke University (CDF/ATLAS)
Douglas Orbaker	2011	D0	RA University of Rochester

¹ Awarded most outstanding thesis on research conducted at Fermilab by the URA, 2001.

² Awarded most outstanding thesis on research conducted at Fermilab by the URA, 2002 and Lobkowicz Prize 2002.

³ Awarded Tollestrup Award for Postdoctoral Research done at Fermilab by the URA, 2003 (based partially on his thesis) and Lobkowicz Prize 2001.

⁴ Awarded URA Best Thesis Award 2004, Lobkowicz Prize 2004 and APS Tanaka Prize 2006.

⁵ Awarded the Lobkowicz Prize 2004.

21.2 PhDs in Theoretical Particle Physics 1991-2012

Name	Ph.D Year	Thesis Expt.	Current Position/Expt.
G. Ferretti	1993	S. Rajeev	Prof., Chalmers University, Sweden
P. Bedaque	1994	A. Das	Prof., University of Maryland
I. Horvath	1994	A. Das	Research Prof., University of Kentucky
S. Guruswamy	1995	S. Rajeev	Lecturer at UC Santa Barbara
P. Vitale ¹	1995	S. Rajeev	Asst. Prof., University of Naples, Italy
O. Turgut	1996	S. Rajeev	Director, Gursey Institute, Turkey
R. Henderson	1997	S. Rajeev	J.P. Morgan Bank, NYC
C.-W. Herbert Lee	1999	S. Rajeev	Bank of China, Hong Kong
Cosmin Macesanu ²	2001	L. Orr	Wave Imaging Technology, Texas
Silvana Perez ³	2003	A. Das	Professor, Univ. Federal do Para, Brazil
Levent Akant ⁴	2003	S. Rajeev	Teaching Position, Bogazici Univ., Turkey
Alexander Mitov	2003	L. Orr	Theory Fellow, CERN
Govind Krishnaswami ⁵	2004	S. Rajeev	Asst. Prof., Chennai Math Inst., India
Alin Constandache	2004	A. Das	Publishing, Boston
Arsen Melikyan	2006	A. Das	Prof., University of Brasilia, Brazil
A. Agarwal	2006	S. Rajeev	Editor at Physical Review Letters
John Boersma	2007	L. Orr	Adjunct Prof. UR and Educational Software
Dan Berdine	2010	L. Orr	Defense Intelligence Agency, Washington, DC

¹ Worked at Rochester, final degree from University of Naples.

² Awarded Okubo Prize 1997.

³ Worked at Rochester, final degree from Universidade de São Paulo.

⁴ Awarded Okubo Prize 1999.

⁵ APS Apker Award 2000 and Okubo Prize 2001.

21.3 High Energy RAs/SRAs at Rochester 1991-2012

Name	Position	At UR (SRA)	Current Position
Vishnu Mathur	SRA/Faculty (theory)	1968-1996	Prof. Emerit., Rochester
Howard Budd	RA (CCFR)	1983(1989)-present	SRA, Rochester (MINERvA)
Koji Ueno	SRA (AMY)	1984-1992	SRA, Natl Taiwan Univ/KEK
Willis Sakumoto	1984-present	Scientist, Rochester (CDF)	
Gerald Blazey	RA (D0)	1986(1990)-1994	Professor, Northern Illinois U.
Paul Draper	RA (D0)	1986(1990)-1992	Faculty, U Texas→science publishing
Joe Rogers	RA (Axions)	1987-1991	Professor, Cornell (deceased 2004)
Alan Sill	RA (AMY/CDF)	1987(1990)-1992	Sr. Scientist, U. Texas, Lubbock
Marek Zielinski	SRA (E706/DØ)	1987-present	Senior Scientist, Rochester (DØ/CMS)
James Dunlea	RA (ATLAS)	1988(1993)-1994	Industry
Priscilla Auchincloss	RA (CCFR)	1989-1997	Dean of Students UR→Education
Giovanni Cantatore	RA (Axions)	1989-1990	Scientist, INFN Trieste
Robert Walker	RA (CDF)	1989-1993	Industry
Leigh Chinitz	RA (AMY)	1990-1993	Industry, Scientist, Motorola
Pawel de Barbaro	RA (CCFR)	1990(1997)-present	Senior Scientist, Rochester (CDF/CMS)
Jan Ftacnik	RA (NSF E706)	1990-1994	CERN
Sunichi Kanda	RA (AMY)	1990-1992	KEK
Yigao Liang	RA (Theory)	1990-1992	Industry
John Mansour	RA (E706)	1990-1992	Industry
Yannis Semertzidis	RA (Axions)	1990-1992	Scientist, BNL
Hongwei Zheng	RA (CDF)	1990-1991	SSC→Industry
J. Barcelos-Neto	RA (Theory)	1991-1992	Prof. Emerit., U. Rio deJaneiro
William Desoi	RA (E706)	1991-1993	Industry
Giuseppe Ruoso	RA (Axions)	1991-1992	Scientist INFN, Italy
Brian Winer	RA (CDF)	1991-1996	Assoc. Prof., Ohio State U.
Zhu Yang	RA (Theory)	1991-1993	Industry
Charles Bamber	RA (SLAC E144)	1992-1995	INat'l Research Council, Canada
Stefan Gruenendahl	RA (D0)	1992(1996)-1998	Scientist, FNAL
Kumar Gupta	RA (Theory)	1993-1995	Professor, Saha Inst., India
Richard Hughes	RA (CDF)	1993-1996	Assoc. Prof., Ohio State
Vladimir Glebov	SRA (ATLAS)	1994-1996	Scientist, Rochester Laser Laboratory
Yi Cen	RA (ATLAS)	1994-1995	Industry
Deborah Harris	RA (NuTeV)	1994-1999	Scientist, FNAL
Chung Kao	RA (theory)	1994-1996	Assoc. Prof., U. of Oklahoma
Bockjoo Kim	RA (CDF-Plug)	1994-1997	Scientist, U. of Florida (iVDGL)
Marc Paterno	RA (D0)	1994(1998)-1998	Scientist, FNAL
Jaehoon Yu	RA (D0)	1994-1996	Assoc. Prof., U. Texas-Arlington
Kamel Bazizi	RA (ATLAS)	1995(1996)-1997	Industry
Sergio Pernice	RA (Theory)	1995-1997	Professor, U. Buenos Aires
Theo Kotseroglou	RA (SLAC E140)	1995-1996	Staff, SLAC
Alan Fry	RA (SLAC E144)	1996-1996	Scientist, SLAC
Mark Kruse	RA (CDF)	1996-1999	Assoc. Prof., Duke
Steven Blusk	RA (CDF)	1996-2001	Assoc. Prof., Syracuse
Michael Bisset	RA (Theory)	1997-1998	Professor, Tsinghua University
Otto Kong	RA (Theory)	1997-1999	Professor, National Central U., Taiwan
Thomas Koffas	RA (SLAC E144)	1998-1999	Asst. Prof. Carleton U.

Robert Szalapski	RA (Theory)	1998-1999	Adjunct Faculty, SUNY Brockport
Volker Buescher	RA (D0)	1998-2000	RA, Gutenberg U., Germany
Kirsten Tollefson	RA (CDF)	1998-2002	Assoc. Prof., Michigan State
Inkyu Park	RA (PHOBOS)	1998-2004	Assist. Prof., KAIST Inst., Korea
Varghese John	RA (Theory)	1999-2000	Industry
Michael Fitch	RA (A0)	1999-2000	Researcher, Johns Hopkins, Applied Physics
Gennaro Corcella	RA (Theory)	1999-2001	RA, MPI-Munich
Doreen Wackeroth	RA (Theory)	1999-2002	Assoc. Prof., Buffalo
Tony Vaiciulis	RA (CDF)	1999-2005	Industry
Michael Begel	RA (Dzero)	1999-2007	Physicist, BNL
Yonsei Chung	RA (CDF/CMS)	1999-2010	Research Fellow, Korea Rare Isotope Accelerator
Andy Hocker	RA (CDF)	2000-2005	Associate Scientist, Fermilab
Wojtek Skulski	RA (NSF PHOBOS)	2000-2004	Sr. Scientist, UR LLE
Eva Halkiadakis	RA (CDF)	2001-2005	Asst. Prof., Rutgers University
Adrian Ghinculov	RA (Theory)	2002-2003	Industry
Gilles DeLentdecker	RA (CDF)	2003-2005	SRA, U. Libre, Brussels
Jianliang Li	RA (A0)	2003-2006	Industry
Veronique Boisvert	RA (CDF)	2004-2007	Lecturer, Royal Holloway Univ.
Yuri Gotra	RA (DØ/CMS)	2004-2010	Industry
David Rainwater	RA (phenom)	2004-2008	Scientist, U. Texas, Applied Research Lab
Arnulf Quadt	RA (DØ)	2004-2006	Faculty, Inst. Phys. Gottingen
Jochin Cammin	RA (DØ)	2004-2009	RA, Johns Hopkins, Medical Imaging
Robert Bradford	RA (MINERvA)	2005-2010	Scientist, Argonne
Ulrich Husemann	RA (CDF)	2005-2006	Scientist, DESY
Sergey Avvakumov	RA (MINERvA)	2006-2008	Industry
Amnon Harel	RA (CMS)	2006-present	
Matsuo Sato	RA (Theory)	2006-2007	Faculty, Hirosaki University, Japan
John Boersma	RA (Theory)	2008-2009	Asst. Prof. UR & Industry
Christian Stahn	RA (Theory)	2008-2009	Industry
Gianluca Petrillo	RA (Dzero)	2008-present	
Gabriel Purdue	RA (MINERvA)	2008-present	
Jiyeon Han	RA (CMS)	2008-present	
Henning Flaecher	RA (CMS)	2009-2011	Lecturer, U. of Bristol, England
Pablo Goldenzweig	RA (CMS)	2009-present	
Roberto Covarelli	RA (CMS)	2010-present	
Philip Rodrigues	RA (T2K)	2010-present	
Laura Loiacono	RA (MINERvA)	2011-present	

22 Publications by Rochester Experiment group 1991 - 2012: A. Bodek, R. Demina, T. Ferbel, S. Manly, K. McFarland, A. Melissinos, S. Olsen, P. Slattery, P. Tipton

1. **“Combined search for the quarks of a sequential fourth generation”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.1062 [hep-ex]
2. **“Search for pair produced fourth-generation up-type quarks in pp collisions at $\sqrt{s}=7$ TeV with a lepton in the final state”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.0471 [hep-ex]
3. **“Measurements of the Top-quark Mass and the $t\bar{t}$ Cross Section in the Hadronic τ + Jets Decay Channel at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1208.5720 [hep-ex]
4. **“Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV”**
, *et al.* [CMS Collaboration].
arXiv:1208.4859 [hep-ex]
5. **“Extracting Muon Momentum Scale Corrections for Hadron Collider Experiments”**
A. Bodek, A. van Dyne, J. Y. Han, W. Sakumoto and A. Strelnikov.
arXiv:1208.3710 [hep-ex]
6. **“Study of the dijet mass spectrum in $pp \rightarrow W + \text{jets}$ events at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.3477 [hep-ex]
7. **“Search for three-jet resonances in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.2931 [hep-ex]
8. **“Observation of sequential Upsilon suppression in PbPb collisions”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.2826 [nucl-ex]
9. **“Measurement of the t t-bar production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.2671 [hep-ex]

10. **“Search for the standard model Higgs boson produced in association with top quarks using the full CDF data set”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1208.2662 [hep-ex]
11. **“Measurement of the azimuthal anisotropy of neutral pions in PbPb collisions at $\sqrt{s}(\text{NN}) = 2.76 \text{ TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.2470 [nucl-ex]
12. **“Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.0957 [hep-ex]
13. **“Search for a W’ boson decaying to a bottom quark and a top quark in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.0956 [hep-ex]
14. **“Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.7235 [hep-ex]
Phys. Lett. B
15. **“Transverse momentum cross section of e^+e^- pairs in the Z-boson region from $p\bar{p}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$ ”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1207.7138 [hep-ex]
16. **“Precision Top-Quark Mass Measurements at CDF”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1207.6758 [hep-ex]
17. **“Evidence for a particle produced in association with weak bosons and decaying to a bottom-antibottom quark pair in Higgs boson searches at the Tevatron”**
T. Aaltonen *et al.* [CDF and D0 Collaborations].
arXiv:1207.6436 [hep-ex]
Phys. Rev. Lett. **109**, 071804 (2012)
18. **“Search for a Higgs boson in the diphoton final state using the full CDF data set from proton-antiproton collisions at $\sqrt{s} = 1.96 \text{ TeV}$ ”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1207.6386 [hep-ex]
19. **“Search for heavy Majorana neutrinos in $\mu\mu + [\mu\mu]$ and $e^+e^- + [e^-e^-]$ events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ ”**

- S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.6079 [hep-ex]
20. **“Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at $\sqrt{s}=7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.5406 [hep-ex]
 21. **“An inclusive search for the Higgs boson in the four-lepton final state at CDF”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1207.5016 [hep-ex]
 22. **“Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76$, and 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.4724 [hep-ex]
 23. **“Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.3973 [hep-ex]
 24. **“Search for Neutral Higgs Bosons in Events with Multiple Bottom Quarks at the Tevatron”**
T. Aaltonen *et al.* [CDF and D0 Collaborations].
arXiv:1207.2757 [hep-ex]
 25. **“A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.2666 [hep-ex]
 26. **“Measurement of the underlying event activity in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV with the novel jet-area/median approach”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.2392 [hep-ex]
 27. **“Measurement of the difference of CP-violating asymmetries in $D^0 \rightarrow K^+K^-$ and $D^0 \rightarrow \pi^+\pi^-$ decays at CDF”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1207.2158 [hep-ex]
 28. **“Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.1898 [hep-ex]
 29. **“Search for supersymmetry in hadronic final states using MT2 in pp collisions at $\sqrt{s} = 7$ TeV”**

- S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.1798 [hep-ex]
30. **“Search for the standard model Higgs boson decaying to a $b\bar{b}$ pair in events with no charged leptons and large missing transverse energy using the full CDF data set”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1207.1711 [hep-ex]
 31. **“Combined search for the standard model Higgs boson decaying to a $b\bar{b}$ pair using the full CDF data set”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1207.1707 [hep-ex]
 32. **“Search for the standard model Higgs boson decaying to a $b\bar{b}$ pair in events with two oppositely-charged leptons using the full CDF data set”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1207.1704 [hep-ex]
 33. **“Search for the standard model Higgs boson decaying to a $b\bar{b}$ pair in events with one charged lepton and large missing transverse energy using the full CDF data set”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1207.1703 [hep-ex]
 34. **“Extraction of Neutrino Flux with the Low ν Method at MiniBooNE Energies”**
A. Bodek, U. Sarica, K. S. Kuzmin and V. A. Naumov.
arXiv:1207.1247 [hep-ex]
 35. **“Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.1130 [hep-ex]
 36. **“Combination of the top-quark mass measurements from the Tevatron collider”**
T. Aaltonen *et al.* [CDF and D0 Collaborations].
arXiv:1207.1069 [hep-ex]
 37. **“Measurement of CP-violation asymmetries in $D^0 \rightarrow K_S \pi^+ \pi^-$ ”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1207.0825 [hep-ex]
Phys. Rev. D **86**, 032007 (2012)
 38. **“Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.0627 [hep-ex]
 39. **“Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].

- arXiv:1207.0106 [hep-ex]
JHEP **1208**, 026 (2012)
40. **“Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in proton-proton collisions at 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.0065 [hep-ex]
 41. **“Search for a light pseudoscalar Higgs boson in the dimuon decay channel in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.6326 [hep-ex]
 42. **“Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.5663 [hep-ex]
 43. **“Search for the standard model Higgs boson produced in association with a $W^\pm$ boson with 7.5 fb^{-1} integrated luminosity at CDF”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1206.5063 [hep-ex]
Phys. Rev. D **86**, 032011 (2012)
 44. **“Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.4071 [physics.ins-det]
 45. **“Diffractive Dijet Production in $\bar{p}p$ Collisions at $\sqrt{s} = 1.96$ TeV”**
T. Aaltonen *et al.* [CDF Collaboration].
arXiv:1206.3955 [hep-ex]
Phys. Rev. D **86**, 032009 (2012)
 46. **“Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.3949 [hep-ex]
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