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# THE SLAC SUMMER INSTITUTE ON PARTICLE PHYSICS
# 1973 - 1996

## 1973 DEEP INELASTIC ELECTROPRODUCTION

| | |
|---|---|
| "Hadron Production in Deep Inelastic Processes" | J.D. Bjorken |
| "Hadron Production in the Collision of Virtual Photons with Nucleons–an Experimental Review" | M. Perl |
| "Phenomenological Analysis" | F.J. Gilman |
| "Asymptotic Behavior and Short Distance Singularities" | Y. Frishman |

## WEAK CURRENTS AND INTERACTIONS

| | |
|---|---|
| "Raw Notes of Lectures on Current Algebra and PCAC" | S. Drell |
| "Experimental Phenomenology" | M. Schwartz<br>S. Wojcicki |
| "Gauge-Theories of Weak and Electromagnetic Interaction" | T. Appelquist |
| "How to Transform Current Quarks to Constituent Quarks and Try to Predict Hadron Decays" | J. Primack<br>K. Kugler |

## 1974 THE STRONG INTERACTIONS

| | |
|---|---|
| "Diffractive Processes" | D.W.G.S. Leith |
| "Amplitude Structure in Two- and Quasi-Two-Body Processes" | M. Davier |
| "Resonances: Experimental Review" | R.J. Cashmore |
| "Resonances: A Quark View of Hadron Spectroscopy and Transitions" | F.J. Gilman |
| "Lectures on Inclusive Hadronic Processes" | D. Sivers |
| "Large Momentum Transfer Processes" | R. Blankenbecler |
| "Hadron Dynamics" | H.D.I. Abarbanel |

## 1975 DEEP HADRONIC STRUCTURE AND THE NEW PARTICLES

| | |
|---|---|
| "Leptons as a Probe of Hadronic Structure" | F.J. Gilman |
| "Lepton Scattering as a Probe of Hadronic Structure" | E.D. Bloom |
| "High $p\perp$ Dynamics" | J.D. Bjorken |
| "Hadronic Collision and Hadronic Structure (An Experimental Review)" | M. Davier |
| "The New Spectroscopy" | H. Harari |
| "The New Spectroscopy (An Experimental Review)" | G.H. Trilling |

## 1976 WEAK INTERACTIONS AT HIGH ENERGY AND THE PRODUCTION OF NEW PARTICLES

| | |
|---|---|
| "Weak Interaction Theory and Neutral Currents" | J.D. Bjorken |
| "Weak Interactions at High Energy" | S.G. Wojcicki |
| "$\psi$ Spectroscopy" | G.J. Feldman |
| "A New Lepton?" | G.J. Feldman |
| "Lectures on the New Particles" | J.D. Jackson |
| "New Particle Production" | D. Hitlin |

## 1977 QUARK SPECTROSCOPY AND HADRON DYNAMICS

| | |
|---|---|
| "Quarks and Leptons" | H. Harari |
| "Quark Confinement" | S.D. Drell |
| "Hadron Spectroscopy" | F.J. Gilman |
| "Lectures on the Quark Model, Ordinary Mesons, Charmed Mesons, and Heavy Leptons" | M.L. Perl |
| "Quarks and Particle Production" | K.C. Moffeit |

## 1978 WEAK INTERACTIONS–PRESENT AND FUTURE

| | |
|---|---|
| "Accelerator Neutrino Experiments" | D.H. Perkins |
| "Weak Interactions at High Energies" | J. Ellis |
| "Gauge Theories of the Weak Interactions" | H. Quinn |
| "Weak Decays" | S. Wojcicki |

## 1979 QUANTUM CHROMODYNAMICS

| | |
|---|---|
| "Lepton Nucleon Scattering" | W.G. Atwood |
| "Massive Lepton Pair Production" | R. Stroynowski |
| "QCD Phenomenology of the Large $P_T$ Processes" | R. Stroynowski |
| "Perturbative Quantum Chromodynamics" | S.J. Brodsky |
| "Elements of Quantum Chromodynamics" | J.D. Bjorken |

## 1980 THE WEAK INTERACTIONS

| | |
|---|---|
| "Gauge Theories of Weak Interactions" | M.J. Veltman |
| "Neutrinos and Neutrino Interactions" | F.J. Sciulli |
| "Weak Decays of Strange and Heavy Quarks" | D. Hitlin |
| "From the Standard Model to Composite Quarks and Leptons" | H. Harari |
| "Physics of Particle Detectors" | D.M. Ritson<br>J. Jaros<br>J. Marx<br>H.A. Gordon<br>R.S. Gilmore<br>W.B. Atwood |

## 1981 THE STRONG INTERACTIONS

| | |
|---|---|
| "Quark-Antiquark Bound State Spectroscopy and QCD" | E.D. Bloom |
| "Meson Spectroscopy: Quark States and Glueballs" | M.S. Chanowitz |
| "Quantum Chromodynamics and Hadronic Interactions at Short Distances" | S.J. Brodsky |
| "Untangling Jets from Hadronic Final States" | G. Fox |
| "Heavy Flavor Production from Photons and Hadrons" | C.A. Heusch |
| "Design Constraints and Limitations in $e^+e^-$ Storage Rings" | J. LeDuff |
| "Linear Colliders: A Preview" | H. Wiedemann |

## 1982 PHYSICS AT VERY HIGH ENERGIES

| | |
|---|---|
| "Expectations for Old and New Physics at High Energy Colliders" | R.N. Cahn |
| "Beyond the Standard Model in Lepton Scattering and Beta Decay" | M. Strovink |
| "Grand Unification, Proton Decay, and Neutrino Oscillations" | H.H. Williams |
| "$e^+e^-$ Interactions at Very High Energy: Searching Beyond the Standard Model" | J. Dorfan |
| "The Hierarchy Gauge Susskind Problem, Technicolor, Supersymmetry, and All That" | L. Susskind |
| "Composite Models for Quarks and Leptons" | H. Harari |
| "Electron-Proton Colliding Beams: The Physics Programme and Machine" | B.H. Wiik |

## 1983 DYNAMICS AND SPECTROSCOPY AT HIGH ENERGY

| | |
|---|---|
| "Jets in QCD: A Theorist's Perspective" | S. Ellis |
| "Jets in $e^+e^-$ Annihilation" | R. Hollebeek |
| "Jet Production in High Energy Hadron Collisions" | R.F. Schwitters |
| "Aspects of the Dynamics of Heavy-Quark Systems" | M.E. Peskin |
| "Heavy Particle Spectroscopy and Dynamics B's to Z's" | M.G.D. Gilchriese |
| "... And for Our Next Spectroscopy?" | J. Ellis |
| "Review of the Physics and Technology of Charged Particle Detectors" | A.H. Walenta |
| "A Review of the Physics and Technology of High-Energy Calorimeter Devices" | P.M. Mockett |

## 1984 THE SIXTH QUARK

| | |
|---|---|
| "The Last Hurrah for Quarkonium Physics: The Top System" | E. Eichten |
| "Developments in Solid State Vertex Detectors" | C.J.S. Damerell |
| "Experimental Methods of Heavy Quark Detection" | T. Himel |
| "Production and Uses of Heavy Quarks" | G.L. Kane |
| "Weak Interactions of Quarks and Leptons: Experimental Status" | S. Wojcicki |
| "The Experimental Method of Ring-Imaging Cherenkov (RICH) Counters" | T. Ekelöf |
| "Weak Interactions of Quarks and Leptons (Theory)" | H. Harari |

## PIEF-FEST

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|---|---|
| "Pief" | S. Drell |
| "Accelerator Physics" | R.R. Wilson |
| "High Energy Theory" | T.D. Lee |
| "Science and Technology Policies for the 1980s" | F. Press |
| "Inclusive Lepton-Hadron Experiments" | J. Steinberger |
| "Forty-Five Years of $e^+e^-$ Annihilation Physics: 1956 to 2001" | B. Richter |
| "We Need More Piefs" | J. Wiesner |

## 1985 SUPERSYMMETRY

| | |
|---|---|
| "Introduction to Supersymmetry" | J. Polchinski |
| "Signatures of Supersymmetry in $e^+e^-$ Collisions" | D. Burke |
| "Properties of Supersymmetric Particles & Processes" | R.M. Barnett |
| "Supersymmetry: Experimental Signatures at Hadron Colliders" | P. Darriulat |
| "Superworld/Hyperworlds" | M.E. Peskin |
| "Very High Energy Colliders" | B. Richter |
| "Some Issues Involved in Designing a 1 TeV (c.m.) $e^{\pm}$ Linear Collider Using Conventional Technology" | G.A. Loew |
| "Wake Field Accelerators" | P.B. Wilson |
| "Plasma Accelerators" | R.D. Ruth & P. Chen |
| "Collider Scaling and Cost Estimation" | R.B. Palmer |

## 1986 PROBING THE STANDARD MODEL

| | |
|---|---|
| "Electroweak Interactions–Standard and Beyond" | H. Harari |
| "CP and Other Experimental Probes of Electroweak Phenomena" | B. Winstein |
| "Perturbative QCD: K-Factors" | R. Field |
| "Experimental Tests of Quantum Chromodynamics" | J. Dorfan |
| "Phenomenology of Heavy Quark Systems" | F. Gilman |
| "Heavy Quark Spectroscopy and Decay" | R. Schindler |
| "Some Aspects of Computing in High Energy Physics" | P. Kunz |
| "Data Acquisition for High Energy Physics Experiments" | M. Breidenbach |

## DRELL-A-BRATION

| | |
|---|---|
| "Topics in Arms Control" | M. Goldberger |
| "Compositeness Below 1 TeV" | R. Jaffe |
| "Our Changing View of Hadron Structure" | J. Bjorken |

## 1987 LOOKING BEYOND THE Z

| | |
|---|---|
| "Theory of $e^+e^-$ Collisions at Very High Energy" | M.E. Peskin |
| "Prospects for Physics at $e^+e^-$ Linear Colliders" | G.J. Feldman |
| "Physics with Polarized Electron Beams" | M.L. Swartz |
| "Electron-Proton Physics at HERA" | G. Wolf |
| "Hadron Colliders Beyond the $Z^0$" | C. Quigg |
| "Physics at Hadron Colliders (Experimental View)" | J.L. Siegrist |
| "The Dialogue Between Particle Physics and Cosmology" | B. Sadoulet |
| "Requirements for Detectors at SSC" | M.G.D. Gilchriese* |

## 1988 PROBING THE WEAK INTERACTION: CP VIOLATION AND RARE DECAYS

| | |
|---|---|
| "Results on $b$-Decay in $e^+e^-$ Collisions, with Emphasis on CP Violation" | K. Berkelman |
| "Precious Rarities–On Rare Decays of $K$, $D$ and $B$ Mesons" | I. Bigi |
| "Superconducting Detectors for Monopoles and Weakly Interacting Particles" | B. Cabrera |
| "Cosmic Relics from the Big Bang" | L. Hall |
| "Double Beta Decay" | M.S. Witherell |
| "Neutrino Masses and Mixings" | L. Wolfenstein |
| "The Bottom Quark: A Key to 'Beyond Standard' Physics" | H. Harari* |
| "$b$-Physics in Fixed Target Experiments" | J. Sandweiss* |
| "Experimental Searches for Rare Decays" | A.J.S. Smith* |

## 1989 PHYSICS AT THE 100 GeV MASS SCALE

| | |
|---|---|
| "Heavy Quarks-Experimental" | R. Hollebeek |
| "The Theory of Heavy Flavour Production" | R.K. Ellis |
| "Precision Experiments in Electroweak Interactions (Experimental)" | M. Swartz |
| "Theory of Precision Electroweak Measurements" | M. Peskin |
| "Applications of QCD to Hadron-Hadron Collisions: Experimental" | M.D. Shapiro |
| "Applications of QCD to Hadron-Hadron Collisions: Theoretical" | I. Hinchcliffe |
| "$W^+W^-$ Interactions and the Search for the Higgs Boson" | M.E. Levi |
| "Electroweak Symmetry Breaking: Higgs/Whatever" | M.S. Chanowitz |
| "Electron-Positron Storage Rings as Heavy Quark Factories" | R.H. Siemann |
| "Prospects for Next-Generation $e^+e^-$ Linear Colliders" | R.D. Ruth |
| "Current Prospects for Hadron Colliders" | H. Edwards |
| "Hadron Colliders Beyond the SSC" | M. Tigner |

## 1990 GAUGE BOSONS AND HEAVY QUARKS

| | |
|---|---|
| "Z Decays and Tests of the Standard Model" | R. Cahn |
| "Future Experiments at LEP I and LEP II" | D. Treille |
| "Experimental Studies of Electroweak Gauge Bosons" | D. Burke |
| "Top Quark Topics" | G. Kane |
| "The Next Linear Collider" | R. Ruth |
| "Theoretical Aspects of $B$-Physics" | J. Bjorken |
| "Fundamental Aspects of $B$-Physics" | P. Drell |
| "B-Factory Storage Ring Design" | J. Rees |

## 1991 LEPTON-HADRON SCATTERING

| | |
|---|---|
| "A Historical Review of Lepton-Photon Scattering" | R. Taylor |
| "Uses of Superconductivity in Particle Accelerators" | R. Siemann |
| "Theoretical Aspects of Lepton-Hadron Scattering" | S. Drell |
| "Lepton-Hadron Scattering from Scaling Violation through HERA" | F. Sciulli |
| "Experimental Studies on QCD" | T. Hansl-Kozanecka |
| "HERA: The New Frontier" | J. Feltesse |
| "Topics in Calorimetry for High Energy Physics" | R. Hollebeek |
| "High Energy Lepton Hadron Scattering as a Probe of QCD" | R. Peccei |

## 1992 THE THIRD FAMILY AND THE PHYSICS OF FLAVOR

| | |
|---|---|
| "Predicting Quark and Neutrino Masses and Mixings" | L.J. Hall |
| "Experimental Techniques for B Physics" | N.A. Roe |
| "Experimental Aspects of CP Violation" | H.N. Nelson |
| "CP Violation" | Y. Nir |
| "Trigger and Data Acquisition at High-Rate Colliders" | A.J. Lankford |
| "Vertex Detectors" | V. Luth |
| "Tau Physics" | M.L. Perl |
| "Experimental Searches for the Top Quark" | R. Hollebeek |
| "Top-ology" | M. Peskin |

## 1993 SPIN STRUCTURE IN HIGH ENERGY PROCESSES

| | |
|---|---|
| "Spin, Mass, and Symmetry" | M.E. Peskin |
| "Physics with Polarized $Z^0$'s" | P. Rowson |
| "Spin and Precision Electroweak Physics" | W.J. Marciano |
| "Polarized Electron Sources" | R. Prepost |
| "Polarization Phenomena in Quantum Chromodynamics" | S.J. Brodsky |
| "Polarized Lepton-Nucleon Scattering" | E. Hughes |

| | |
|---|---|
| "Polarized Targets in High Energy Physics" | G.D. Cates, Jr. |
| "Spin Dynamics in Storage Rings and Linear Accelerators" | J. Irwin |
| "Spin Formalism and Applications to New Physics Searches" | H.E. Haber |

## 1994 PARTICLE PHYSICS, ASTROPHYSICS & COSMOLOGY

| | |
|---|---|
| "Cosmology: Standard and Inflationary" | M.S. Turner |
| "Gravitational Waves" | K.S. Thorne |
| "Gravity Wave Experiments" | R. Weiss |
| "Neutrino Masses and Mixing" | S. Mishra |
| "A Dielectric-Based GeV/m Crossed-Laser-Beam Electron Linear Accelerator" | R. Byer |
| "Dark Matter and Large-Scale Structure" | J. Primack |
| "Searches for Baryonic Dark Matter via Microlensing" | C. Alcock |
| "Low-Noise Detectors in Astrophysics" | B. Sadoulet |
| "Investigating High-Field Gravity Using Astrophysical Techniques" | E.D. Bloom |
| "Dark Matter Candidates: Front Runners and Dark Horses" | M. Srednicki |

## 1995 THE TOP QUARK & THE ELECTROWEAK INTERACTION

| | |
|---|---|
| "Theory of Top Quark Production and Decay" | J.H. Kühn |
| "Top Quark Stidoes at Hadron Colliders" | P.K. Sinervo |
| "Top at Future Linear $e^+e^-$ Colliders" | K. Fujii |
| "Review of Precision Electroweak Data" | M. Swartz |
| "Vertex Detectors: The State of the Art and Future Prospects" | C.J. S. Damerell |
| "The Role of Top in Heavy Flavor Physics" | J.L. Hewett |
| "Techniques for Particle Identification" | T. Ypsilantis |
| "The Heavy Top Quark and Supersymmetry" | L.J. Hall |

## 1996 THE STRONG INTERACTION, FROM HADRONS TO PARTONS

| | |
|---|---|
| "QCD: Questions, Challenges, and Dilemmas" | J.D. Bjorken |
| "Basics of QCD Perturbation Theory" | D.E. Soper |
| "The Heavy Quark Expansion of QCD" | A.F. Falk |
| "QCD in Hadron-Hadron Collisions" | M.G. Albrow |
| "Precise Tests of QCD in $e^+e^-$ Annihilation" | P.N. Burrows |
| "Search for Glueballs" | W. Toki |
| "Lattice Gauge Theory for QCD" | T. DeGrand |
| "QCD Studies in $ep$ Collisions" | W.H. Smith |
| "Small-$x$ Physics" | A.H. Mueller |
| "QCD in Heavy Quark Production and Decay" | J. Wiss |

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