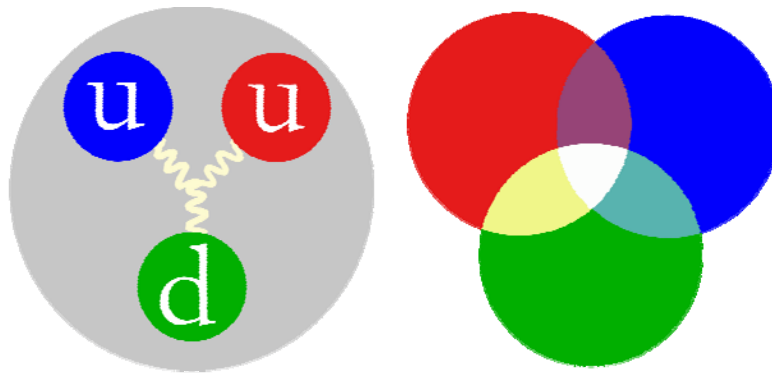


HISTORIC SYMPOSIUM
ON THE DEVELOPMENT AND FUTURE
OF PARTICLE PHYSICS

50 Years of Quarks & Color



April 11-12, 2014

University of Maryland - College Park, MD

Marriott Inn and Conference Center

3501 University Boulevard East

Hyattsville, MD 20873

50 Years of Quarks and Color

April 11, 2014

Chair: Andrew Baden

- 7:30 AM **Breakfast and Registration (Room 0105 Foyer)**
- 8:30 AM Mary Ann Rankin and Jayanth Banavar, University of Maryland
Welcoming and Opening Remarks
- 9:00 AM Silvan Schweber, Brandeis University
The Quantum Revolution
- 9:50 AM Gabriel Karl, University of Guelph
Quark Models for Baryon Spectroscopy
- 10:40 AM **Break**
- 11:00 AM George Zweig, Massachusetts Institute of Technology
Concrete Quarks-The Beginning of the End
- 12:00 PM O.W. (Wally) Greenberg, University of Maryland
The Origin of Color
- 12:50 PM **Lunch (Patuxent Room)**
- Chair: Rabindra Mohapatra
- 2:00 PM Chris Quigg, Fermi National Accelerator Laboratory
Electroweak Symmetry Breaking: Status and Prospects
- 2:50 PM Thomas Appelquist, Yale University
Confinement and Conformality
- 3:40 PM **Break**
- 4:00 PM Michael Creutz, Brookhaven National Laboratory
Why Put QCD on a Lattice?
- 4:50 PM George Sterman, State University of New York, Stony Brook
Imaging Fundamental Particles
- 6:30 PM **Cocktail Reception (Chesapeake Ballroom - Salon C Foyer)**
- 7:30 PM **Banquet Dinner (Chesapeake Ballroom - Salon C)**
Speaker: Robbert Dijkgraaf, Institute for Advanced Study
Invisible Colors

April 12, 2014

Chair: Raman Sundrum

7:30 AM **Breakfast (Room 0105 Foyer)**

8:30 AM Howard Georgi, Harvard University
Quarks, Color, $SO(10)$ and $SU(5)$

9:20 AM Nathan Seiberg, Institute for Advanced Study
Symmetries Come and Go

10:10 AM **Break**

10:30 AM Zvi Bern, University of California, Los Angeles
Color and Gravity

11:20 AM Nima Arkani-Hamed, Institute for Advanced Study
The Amplituhedron

12:10 PM **Lunch (Patuxent Room)**

Chair: O.W. (Wally) Greenberg

1:30 PM Joseph Incandela, University of California, Santa Barbara
Discovery and Study of a Higgs Boson

2:20 PM James Bjorken, Stanford University
From the World of Color Towards a World of Darkness

3:10 PM **Break**

3:30 PM Frank Wilczek, Nobel Laureate, Massachusetts Institute of Technology
Color-Flavor Locking and Quark-Hadron Continuity

4:20 PM François Englert, Nobel Laureate, Université Libre de Bruxelles
The BEH Mechanism and its Scalar Boson

5:10 PM **Concluding Discussion**

6:30 PM **Symposium Ends**

*All talks will take place in Room 0105 in the Conference Center

International Organizing Committee:

Lars Brink, Sweden

Sidney Drell, United States

Mary K. Gaillard, United States

Christopher Llewellyn-Smith, United Kingdom

Amitava Raychaudhuri, India

Dan-Olof Riska, Finland

Local Organizing Committee:

Andrew Baden

Zacharia Chacko

Thomas Cohen

O.W. (Wally) Greenberg

Xiangdong Ji

Rabindra Mohapatra

Raman Sundrum

Steven Wallace

Support for this meeting has been provided by:



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& NATURAL SCIENCES**

