

SM@50



Report of Contributions

Contribution ID: 1

Type: **not specified**

Soft pions

Presenter: ADLER, Steve

Session Classification: Origins of Quantum Chromo-Dynamics

Contribution ID: 2

Type: **not specified**

Charm, beauty, $R(e^+ e^- \text{ to 3 jets}) / R(e^+ e^- \text{ to 2 jets})$

Presenter: GAILLARD, Mary K.

Session Classification: Origins of Quantum Chromo-Dynamics

Contribution ID: 3

Type: **not specified**

The strong interaction

Presenter: D. BJORKEN, James

Session Classification: Origins of Quantum Chromo-Dynamics

Contribution ID: 4

Type: **not specified**

Quarks

Presenter: FRIEDMAN, Jerome I.

Contribution ID: 5

Type: **not specified**

Discovery of the Higgs boson at the LHC (after a 50-year search!)

Presenter: BUTTERWORTH, Jonathan

Contribution ID: 6

Type: **not specified**

The role of particle accelerators

Saturday, June 2, 2018 2:00 PM (40 minutes)

Presenter: RUBBIA, Carlo

Session Classification: Afternoon session

Contribution ID: 7

Type: **not specified**

Heavy quark physics, Tetra-quarks

Saturday, June 2, 2018 2:40 PM (40 minutes)

Presenter: WISE, Mark

Session Classification: Afternoon session

Contribution ID: 8

Type: **not specified**

Lattice gauge theories

Saturday, June 2, 2018 3:50 PM (40 minutes)

Presenter: CHRIST, Norman

Session Classification: Afternoon session

Contribution ID: 9

Type: **not specified**

The discovery of the gluon

Saturday, June 2, 2018 4:30 PM (40 minutes)

Presenter: WU, Sau Lan

Session Classification: Afternoon session

Contribution ID: **10**

Type: **not specified**

Nuclei in the Standard Model and Beyond

Saturday, June 2, 2018 12:10 PM (40 minutes)

Presenter: VAN KOLCK, Ubirajara

Session Classification: Morning session

Contribution ID: 11

Type: **not specified**

High-precision electro-weak experiments

Sunday, June 3, 2018 9:00 AM (40 minutes)

Presenter: BLONDEL, Alain

Session Classification: Morning session

Contribution ID: 12

Type: **not specified**

High-precision electro-weak theory

Saturday, June 2, 2018 9:00 AM (1h 20m)

Session Classification: Morning session

Contribution ID: 13

Type: **not specified**

Today's Technology, Engineering and applied Mathematics is Yesterday's Science

Saturday, June 2, 2018 10:20 AM (40 minutes)

Presenter: WARD, Bennie F.L.

Session Classification: Morning session

Contribution ID: 14

Type: **not specified**

Renormalization and unitarity of spontaneously broken gauge theories

Saturday, June 2, 2018 11:30 AM (40 minutes)

Presenter: 'T HOOFT, Gerard

Session Classification: Morning session

Contribution ID: 15

Type: **not specified**

Doorways to New Physics

Saturday, June 2, 2018 5:10 PM (40 minutes)

Presenter: FILEVIEZ PEREZ, Pavel

Session Classification: Afternoon session

Contribution ID: 16

Type: **not specified**

Baryo-genesis

Sunday, June 3, 2018 9:40 AM (40 minutes)

Presenter: KOLB, Rocky

Session Classification: Morning session

Contribution ID: 17

Type: **not specified**

Cosmic Microwave Background

Sunday, June 3, 2018 10:20 AM (40 minutes)

Presenter: SMOOT, George

Session Classification: Morning session

Contribution ID: **18**

Type: **not specified**

Expansion of the universe

Sunday, June 3, 2018 11:30 AM (40 minutes)

Presenter: FILIPPENKO, Alexei V.

Session Classification: Morning session

Contribution ID: **19**

Type: **not specified**

CP violation

Sunday, June 3, 2018 12:10 PM (40 minutes)

Presenter: QUINN, Helen

Session Classification: Morning session

Contribution ID: 20

Type: **not specified**

Welcome to CWRU

Sunday, June 3, 2018 2:00 PM (10 minutes)

Presenters: SNYDER, Barbara (President, CWRU); WYANT, James (Chair, Board of Trustees)

Session Classification: Afternoon session

Contribution ID: 21

Type: **not specified**

The alpha Magnetic Spectrometer on the International Space Station

Sunday, June 3, 2018 2:10 PM (40 minutes)

Presenter: TING, Samuel C. C.

Session Classification: Afternoon session

Contribution ID: 22

Type: **not specified**

Core Theory Cosmology

Sunday, June 3, 2018 2:50 PM (40 minutes)

Presenter: STARKMAN, Glenn D.

Session Classification: Afternoon session

Contribution ID: 23

Type: **not specified**

The problems of quantum mechanics

Sunday, June 3, 2018 3:30 PM (40 minutes)

Presenter: WEINBERG, Steven

Session Classification: Afternoon session

Contribution ID: 24

Type: **not specified**

The Standard Model and Beyond (Public Lecture)

Presenter: GROSS, David

Session Classification: Afternoon session

Contribution ID: 25

Type: **not specified**

Unity from Amplitudes: Gravitons to Gluons to Pions

Monday, June 4, 2018 9:40 AM (40 minutes)

Presenter: CHEUNG, Clifford

Session Classification: Morning session

Contribution ID: 26

Type: **not specified**

The quark-gluon plasma

Monday, June 4, 2018 9:00 AM (40 minutes)

Presenter: SCHUKRAFT, Jurgen

Session Classification: Morning session

Contribution ID: 27

Type: **not specified**

Gravitational waves: from idea to discovery

Monday, June 4, 2018 10:20 AM (40 minutes)

Presenter: SIGG, Daniel

Session Classification: Morning session

Contribution ID: 28

Type: **not specified**

Searching for New Physics without colliders

Monday, June 4, 2018 11:20 AM (40 minutes)

Presenter: DIMOPOULOS, Savas

Session Classification: Concluding remarks

Contribution ID: 29

Type: **not specified**

The conceptual basis of the Standard Model

Monday, June 4, 2018 12:00 PM (40 minutes)

Presenter: WEINBERG, Steven

Session Classification: Concluding reamarks

Contribution ID: **30**

Type: **not specified**

Welcome

Friday, June 1, 2018 1:00 PM (10 minutes)

Presenters: TAYLOR, Cyrus; STARKMAN, Glenn D.; KASH, Kathleen

Session Classification: Afternoon session

Contribution ID: 31

Type: **not specified**

Discovery of the Higgs boson at the LHC (after a 50-year search!)

Friday, June 1, 2018 1:10 PM (40 minutes)

Presenter: BUTTERWORTH, Jonathan (University College London (UK))

Session Classification: Afternoon session

Contribution ID: 32

Type: **not specified**

Origins of Quantum Chromo-Dynamics

Friday, June 1, 2018 2:30 PM (2 hours)

Session Classification: Afternoon session

Contribution ID: 33

Type: **not specified**

Quarks

Friday, June 1, 2018 5:00 PM (40 minutes)

Presenter: FRIEDMAN, Jerome I.

Session Classification: Afternoon session

Contribution ID: **34**

Type: **not specified**

Book signing

Session Classification: Afternoon session

Contribution ID: 35

Type: **not specified**

Neutrino Oscillations

Friday, June 1, 2018 1:50 PM (40 minutes)

Presenter: KAJITA, Takaaki

Session Classification: Afternoon session

Contribution ID: 36

Type: **not specified**

The Standard Model and Beyond (Public Lecture)

Sunday, June 3, 2018 5:00 PM (1 hour)

Presenter: GROSS, David

Session Classification: Public lecture: The Standard Model and Beyond

Contribution ID: 37

Type: **not specified**

Book Signing

Sunday, June 3, 2018 6:00 PM (30 minutes)

Session Classification: Public lecture: The Standard Model and Beyond