

**Session Program**

**20-24 Oct 2014**

**The 21st International Symposium on Spin  
Physics (Spin2014)**

***Parallel-III***

Peking University, Beijing, China.  
No.5 , Yiheyuan Road , Haidian District, Beijing 100871, China.

# Tuesday 21 October

13:30

## Parallel-III: S12 (Chair: Gui Lu Long)

Session | Location: Yingjie International Exchange Centre, Peking University

13:30-14:00

### Planar Quantum Squeezing and Optimized Interferometric Phase Measurement

**Speaker**  
Qiongyi He

14:00-14:25

### Quantum Information Processing Based on Quantum-dots in Optical Double-sided Microcavities

**Speaker**  
Tie-jun Wang

14:25-14:50

### Demonstrating a Quantum Algorithm Using Nuclear Magnetic Resonance

**Speaker**  
Yang Liu

15:15

13:30

## Parallel-III: S2 (Chair: Jian-Ping Chen)

Session | Location: Yingjie International Exchange Centre, Peking University

13:30-14:00

### Theoretical Status of Helicity Parton Densities

**Speaker**  
Emanuele Roberto Nocera

14:00-14:30

### New Results on the Longitudinal Spin Structure of the Nucleon from CLAS at Jefferson Lab

**Speaker**  
Peter Bosted

14:30-14:45

### COMPASS Results on $g_1$ and NLO QCD Fits

**Speaker**  
Fabienne Kunne

15:15

13:30

## Parallel-III: S4 (Chair: Nicole D'Hose)

Session | Location: Yingjie International Exchange Centre, Peking University

13:30-14:00

### Nucleon Form Factors

**Speaker**  
Bill Briscoe

14:00-14:30

### Overview of the Proton Radius Problem

**Speaker**  
Carl Carlson

15:15

14:30-14:50

**New Precision Measurement for Proton Zemach Radius with Laser Spectroscopy of Muonic Hydrogen**

**Speaker**  
Yue Ma

13:30

**Parallel-III: S5 (Chair: Nikolai Kochelev)**

**Session** | **Location:** Yingjie International Exchange Centre, Peking University

13:30-14:00

**Role of Spin in  $NN \rightarrow NN\pi$**

**Speaker**  
Vadim Baru

14:00-14:25

**Spin Physics at NICA**

**Speaker**  
Alexander Nagaytsev

15:15

13:30

**Parallel-III: S8 (Chair: Wei-Tou Ni)**

**Session** | **Location:** Yingjie International Exchange Centre, Peking University

13:30-13:59

**Spin-gravity Interactions and Equivalence Principle**

**Speaker**  
Oleg Teryaev

14:18-14:37

**New Limit on Lorentz-Invariance- and CPT-Violating Neutron Spin Interactions Using a Free-Spin-Precession  $^3\text{He}$ - $^{129}\text{Xe}$  Comagnetometer**

**Speaker**  
Fabian Allmendinger

14:37-14:56

**Limits for Spin-Dependent Short-Range Interaction of Axion-like Particles**

**Speaker**  
Kathlyne Tullney

14:56-15:15

**New Spin and Velocity Dependent Force Searching by Using Polarized Helium Gas**

**Speaker**  
Changbo Fu

15:15