

**PROGRAMME**  
**of**  
**the 5<sup>th</sup> International Workshop on Crystalline Undulator and Related Phenomena**  
November 3-5, Beijing, China

**November 3 (Monday)**

09:15 – 11:00 Session 1

**Chairperson: F.S. Zhang** (Beijing Normal University, China)

09:15 - 09:25 *Welcome by P. J. Shi* (Deputy President, Beijing Normal University)

09:25 - 10:15 *The Physics of Crystalline Undulators*

**Andrey V. Solov'yov** (MBN Research Center, Frankfurt, Germany)

10:15 - 11:00 *Orientalional Coherent Effects of Protons in Crystals*

**Vincenzo Guidi** (University of Ferrara, Italy)

11:00 – 11:30 Coffee/Tea break

11:30 – 12:50 Session 2

**Chairperson: Vincenzo Guidi** (University of Ferrara, Italy)

11:30 - 12:20 *Channeling of Sub-GeV Electrons in Flat, Bent and Periodically Bent Silicon Single Crystals*

**Hartmut Backe** (University of Mainz, Germany)

12:20 - 12:50 *Coherent Effects of Negatively Charged Particles Beams in Crystals*

**Andrea Mazzolari** (University of Ferrara, Italy)

12:50 - 14:20 Lunch

14:20 – 15:40 Session 3

**Chairperson: Andrey V. Solov'yov** (MBN Research Center, Frankfurt, Germany)

14:20 - 15:00 *Recent Progress in Numerical Implementation of TDDFT: the PWTELEMAN*

**Florent Calvayrac** (Institut des Molecules et Materiaux du Mans,  
Universite du Maine, France)

15:00 - 15:40 *Progress in CUTE in BNU*

**F. S. Zhang** (College of Nuclear Science and Technology, Beijing Normal  
University)

15:40 – 16:10 Coffee/Tea break

16:10 – 17:10 Session 4

**Chairperson: Hartmut Backe** (University of Mainz, Germany)

16:10 - 16:40 *Theoretical Study on Materials in Molten-Salt Nuclear Reactor.*

**Ping Huai, Wei Zhang, Chengbin Wang** (Shanghai Institute of Applied  
Physics, CAS)

16:40 - 17:10 *Radiation Damage in Some Reactor Structural Materials*

**L.Yan** (Shanghai Institute of Applied Physics, CAS)

## November 4 (Tuesday)

### 09:30 - 10:45 Session 5

**Chairperson: Andrea Mazzolari** (University of Ferrara, Italy)

09:30 - 10:15 *Experiments with Coherent X Rays at the Mainz Microtron MAMI*

**Werner Lauth** (University of Mainz, Germany)

10:15 - 10:45 *Magnetism of Defects in SiC*

**W. Cheng** (College of Nuclear Science and Technology, Beijing Normal University)

10:45 – 11:15 Coffee/Tea break

### 11:15 - 13:00 Session 6

**Chairperson: Florent Calvayrac** (Institut des Molecules et Materiaux du Mans, Universite du Maine, France)

11:15 - 12:00 *Interactions of Beam with Nano-Materials in China*

**Z. Y. Zhu** (Shanghai Institute of Applied Physics & Shanghai Branch, CAS)

12:00 - 12:30 *Determination of Ion Probabilities in Time-Dependent Density Functional Theory*

**F. Wang** (School of Mechanical Engineering, Beijing Institute of Technology)

12:30 - 13:00 *First-Principles Study of the Low-Energy Electronic Stopping Power*

**F. Mao** (College of Nuclear Science and Technology, University of South China)

13:00 - 14:30 Lunch

### 14:30 - 16:00 Session 7

**Chairperson: Z. Y. Zhu** (Shanghai Institute of Applied Physics & Shanghai Branch, CAS)

14:30 - 15:00 *Structural, Optical and Magnetic Properties of As and Sb Implanted ZnO Films Prepared by MBE*

**M.J.Ying** (College of Nuclear Science and Technology, Beijing Normal University)

15:00 - 16:00 *Round-table discussion* (coffee/tea served in the course of the discussion).

19:00 - 21:30 *Conference Dinner*

## November 5 (Wednesday)

09:00 – 14:00 *Conference Tour.*