

STORI'08 Scientific Programme

Sept. 14, Sunday

- 10:00-20:00 Registration (Place: Ningwozhuang Hotel)
18:00-20:00 Welcoming reception (Place: Ningwozhuang Hotel)

Sept. 15, Monday

Session 1 Chair: Hans Ströher

- 08:30-08:40 Guoqing Xiao (IMP, China)
Welcoming address
08:40-09:20 I Alfons Khoukaz (Univ. Münster, Germany)
Hadron physics at COSY
09:20-10:00 I Hushan Xu (IMP, China)
HIRFL-CSR physics program
10:00-10:20 Coffee break

Session 2 Chair: Binsong Zou

- 10:20-11:00 I Takashi Nakano (RCNP, Osaka Univ., Japan)
Hadron physics studied at LEPS/SPring-8
11:00-11:40 I Igor Meshkov (JINR, Russia)
Project of the Nuclotron-based Ion Collider fAcility (NICA) at JINR
11:40-12:20 I Haiyan Gao (Duke Univ., USA)
New results from the Bates Large Acceptance Spectrometer Toroid (BLAST)
12:30 Lunch

Session 3 Chair: Haiyan Gao

- 14:00-14:30 I Christoph Hanhart (FZ-Jülich, Germany)
Non-strange meson production with hadronic probes
14:30-15:00 I Alexander Sibirtsev (Univ. Bonn/JLab, Germany)
Strangeness production
15:00-15:30 I Matteo Martini (INFN-LNF, Italy)
Recent results from KLOE at $\text{Da}\phi\text{ne}$
15:30-15:50 Coffee break

Session 4 Chair: Igor Meshkov

- 15:50-16:20 I Xiaoyan Shen (IHEP, China)
Recent results from BESII and physics prospects at BESIII
16:20-17:00 I Markus Steck (GSI, Germany)
Status of the design of the FAIR storage rings
17:00-17:30 I Guoqing Xiao (IMP, China)
Overview on the HIRFL-CSR facility
17:30-18:30 **Conference Photo (Place: Main gate of IMP)**
Tour of IMP

- 18:30-19:30 Dinner
 20:00 **Cultural evening**

Sept. 16 Tuesday

Session 5 Chair: Erhard Steffens

- 08:30-09:00 I Paolo Lenisa (Univ. Ferrara/INFN, Italy)
 Polarization by spin filtering in storage rings
 09:00-09:20 C Bo Höistad (Uppsala Univ., Sweden)
 Polarisation of the ω meson in the $pd \rightarrow {}^3\text{He } \omega$ reaction
 09:20-10:00 I Dieter H. H. Hoffmann (Technical Univ. Darmstadt, Germany)
 High energy density physics with intense particle and laser beam
 10:00-10:20 Coffee break

Session 6 Chair: Dieter H. H. Hoffmann

- 10:20-10:50 I Yuri Litvinov (GSI, Germany)
 Nuclear physics at the present ESR facility
 10:50-11:25 I Marielle Chartier (Univ. Liverpool, UK)
 The EXL, ELISe and AIC experiments at the NUSTAR ring branch of FAIR
 11:25-12:00 I Frank Herfurth (GSI, Germany)
 Precise nuclear physics measurements with ion traps
 12:00-12:30 I Danyal Winters (GSI, Germany)
 Atomic physics at storage rings: Recent results from the ESR and future perspectives at FAIR
 12:30-13:30 Lunch
 13:30-16:30 **Tour to the Gansu Provincial Museum**

Session 7 Parallel Session (Hadronic Physics)

Chair: Paolo Lenisa

- 16:30-17:00 C Sergey Dymov (Universitat Erlangen-Nürnberg, Germany)
 Hadron physics with diproton final states
 17:00-17:25 C Binsong Zou (IHEP, China)
 Theoretical prediction of differential cross sections for $pp \rightarrow pn\pi^+$ reaction
 17:25-17:45 C Fan Wang (Nanjing Univ., China)
 Dibaryon signals in the NN scattering data and further measurement at CSR
 17:45-18:05 Coffee break

Session 8 Parallel Session (Hadronic Physics)

Chair: Bo Höistad

- 18:05-18:30 C Izabella Zychor (IPJ, Poland)
 Excited hyperons produced in pp collisions with ANKE at COSY
 18:30-18:50 C Pengnian Shen (IHEP, China)
 Hypernucleus production by $A(p, pK^+)_{\Lambda}B$ reactions
 18:50-19:10 C Qiang Zhao (IHEP, China)
 Tetraquark $X(u\bar{d}\bar{s}\bar{s})$ production in $pn \rightarrow \Lambda\Lambda X$

19:10-19:30 C Jialun Ping (Nanjing Normal Univ., China)
Multi-quark exotics study

Session 9 Parallel Session (Nuclear and Atomic Physics)

Chair: Peter Egelhof

16:30-16:55 C Meng Wang (IMP, China)

The first isochronous mass spectrometry at CSRe

16:55-17:15 C Baohua Sun (Peking Univ., China)

Direct mass measurement of short-lived neutron rich nuclides with the isochronous mass spectrometry at GSI

17:15-17:35 C Xinwen Ma (IMP, China)

Atomic physics researches at Cooler Storage Ring in Lanzhou

17:35-17:55 Coffee break

Session 10 Parallel Session (Nuclear and Atomic Physics)

Chair: Marielle Chartier

17:55-18:20 C Haik Simon (GSI, Germany)

Technical realization of the ELISe experiment at FAIR

18:20-18:45 C Shuo Wang (Peking Univ., China)

Electron scattering off short-lived radioactive nuclei

18:45-19:05 C Takayuki Yamaguchi (Saitama University, Japan)

Beam optics simulation of Rare-RI Ring at RI Beam Factory in RIKEN

19:05-19:30 C Alexander Golubev (ITEP, Russia)

Experimental activities on high energy density in matter at ITEP

20:00 **Banquet**

Sept. 17 Wednesday

Session 11 Chair: Takashi Nakano

08:30-09:05 I Michael Hartmann (FZ-Jülich, Germany)

Some experimental techniques at storage rings

09:05-09:40 I Fritz Nolden (GSI, Germany)

Beams at storage rings - From proton to uranium

09:40-10:20 I James Ritman (FZ-Jülich, Germany)

WASA-at-COSY and PANDA-at-FAIR: 4π detectors for fixed target experiments on hadron structure and dynamics

10:20-10:40 Coffee break

Session 12 Chair: Hushan Xu

10:40-11:20 I Robert Grisenti (Univ. Frankfurt, Germany)

Development of a cryogenically cooled liquid internal target beam at the ESR storage ring

11:20-11:40 C Nasser Kalantar (KVI, The Netherlands)

First feasibility study for EXL with prototype detectors at the ESR and detector simulations

- 11:40-11:55 C Pavel Fedorets (FZ-Jülich, Germany / ITEP, Russia)
Production of hydrogen, nitrogen and argon pellets with the Moscow-Jülich pellet target
- 11:55-12:10 C Kirill Grigoryev (FZ-Jülich, Germany)
The polarized internal gas target of ANKE at COSY
- 12:10-12:30 C Erhard Steffens (University of Erlangen-Nürnberg, Germany)
A study of the proton beam lifetime in the COSY storage ring at low momenta
- 12:30 Lunch

Session 13 Chair: James Ritman

- 14:00-14:30 I Antonio Passeri (INFN, Italy)
DAPHNE - status and plans
- 14:30-14:55 C Yusuke Yasuda (Univ. Tsukuba, Japan)
Present status of Rare-RI Ring project in RIKEN RIBF
- 14:55-15:25 I Yoshikazu Maeda (RCNP, Osaka Univ., Japan)
Multi-GeV photon beam experiments at the Spring-8 laser-backscattering facility
- 15:25-15:45 Coffee break

Session 14 Chair: Guoqing Xiao

- 15:45-16:25 I Dieter Prasuhn (FZ-Jülich, Germany)
COSY - a storage ring for present physics experiments and as predecessor for HESR
- 16:25-17:05 I Andreas Lehrach (FZ-Jülich, Germany)
The High Energy Storage Ring (HESR) for FAIR
- 17:05-17:45 I Hans Ströher (FZ-Jülich, Germany)
Summary talk
- 18:30 Dinner

Sept. 18 Thursday

- 06:30-07:00 Breakfast
- 07:00-20:00 **Excursion**

Sept. 19 Friday

Leaving Lanzhou