

### 3. The Theses of Doctorate In 2016

- 1) R&D of Liquid Helium Inner Cooling Superconducting Cable for HIAF Fast-pulsed Magnet  
Chen Yuquan
- 2) Initial Investigations of (np)-Scattering with a Polarized Deuterium Target at ANKE-COSY  
Gou Boxing
- 3) H Benchmarking of evaluated neutron nuclear data for granular Tungsten and Gallium relevant to ADS spallation target  
Han Rui
- 4) Design and Beam Commissioning of Beam Lines for CADS Injector II Prototype Linac  
Jia Huan
- 5) The Control System of the ECR-IS and LEBT, Vacuum and cryo-module Used in ADS Injector II  
Jiang Ziyun
- 6) Study of He Effects in Ferritic/Martensitic steel  
Wang Ji
- 7) Study of Detector System for Intermediate-Energy Coulomb Excitation Reactions at the External Target Facility of HIRFL-CSR  
Yan Duo
- 8) Studies on Low-energy Highly-charged Ion Beam Transport from an ECR Ion Source  
Yang Yao
- 9) The Application and Research of the Digital Waveform Sampling Technology in Particle Detection  
Du Chengming
- 10) Experimental Investigations of Collision Dynamics of Intermediate Energy  $\text{He}^{2+}$  impact on Ar and COHu Xuejing  
R&D of an APF IH-DTL Injector  
Gao Yong
- 11) Experimental Research on LLRF Control Algorithms for High Current Superconducting Accelerator  
Gao Zheng
- 12) The Application of EPICS In CSRe Control System  
Gu Kewei
- 13) Swift Heavy Ion Irradiation Effect on Mono- and Few-layer  $\text{MoS}_2$   
Guo Hang
- 14) Using Heavy-ion Collision to Study the High Density Behavior of Symmetry Energy  
Guo Wenmei
- 15) Experimental Reconstruction of Primary Hot Isotopes and Characteristic Properties of the Fragmenting Source in Heavy-ion Reactions near the Fermi Energy  
Lin Weiping
- 16) The Studies of Experiments and Theoretical Simulations on Guiding of Ions through Insulating Capillaries  
Liu Shidong
- 17) Alpha-decay Study of the very Neutron-deficient Ac Isotopes and Exploration of  $\text{ER-}\gamma-\alpha-\gamma$  Coincidence Measurements  
Ma Long
- 18) Mechanism Study of MicroRNA-449a Enhancing Radiosensitivity in Prostate Cancer Cells  
Mao Aihong
- 19) The Effects of MSH2 Gene, Telomerase and NADPH Oxidase on Radiation Sensitivity of Tumor Cells  
Miao Guoying
- 20) Numerical Simulation of Ion Beam Driven HEDP Research and Dynamic Vacuum Issue Study in Accelerator  
Ren Jieru
- 21) Simulation and Study of Injection Method of Barrier Bucket Supported by off-aligned Electron Cooling on CRing  
Shen Guodong
- 22) Design and Research of Matrix Converter Applied to HIRFL Magnet Power Supply  
Wang Bin
- 23) The Effects and Mechanisms on Photosynthesis System of Green Algae after Carbon Ions Irradiation  
Wang Jie
- 24) Photoproduction of Hadrons and Productions of Charmed Mesons  
Wang Xiaoyun

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- 25) Sensitivity Prediction of Single Event Effects Induced by Protons in Semiconductor Devices  
Xi Kai
  - 26) Alpha Decay Studies of the New Neutron-deficient Nuclides  $^{216}\text{U}$  and  $^{215}\text{U}$   
Yang Huabin
  - 27) The Study on Single Event Effects in Flash-based FPGAs and The Design of New Single Event Effects Test System  
Yang Zhenlei
  - 28) Study on Heavy Ion Induced Late Effects in A549 Cell Line and Hippocampus of Balb/c Mouse  
Ye Fei
  - 29) Nucleon Momentum Distribution in Asymmetric Nuclear matter And Neutrino Emissivities Inside of Neutron Stars  
Yin Peng
  - 30) Research on the Mechanism of Flower Pigment Mutation Induced by Carbon Ions in Geranium (*Pelargonium × hortorum*)  
Yu Lixia
  - 31) Study of the Synthesis Mechanism of Superheavy Nuclei Based on the Dynamically-deformed DNS Model  
Yu Lin
  - 32) Data Readout Method and Circuit Research Based on the Waveform Sampling Technology  
Zhang Jingzhe
  - 33) Investigations of Structural Damage and Modification of Muscovite Mica Caused by Energetic Heavy Ion Irradiation  
Zhang Shengxia
  - 34) Design and Development of the Plastic Scintillator Detector of Dark Matter Particle Explorer  
Zhou Yong