

### 3. The Theses of Doctorate In 2014

- 1) Research On Alignment And Installation of Large Ion Accelerator  
Cai Guozhu
- 2) The Irradiation Effects of HOPG And Graphene Induced By Energetic Heavy Ions  
Zeng Jian
- 3) Research on Low Beta Superconducting Cavity Testing  
Chang Wei
- 4) Experimental Study of The Low Energy Cross Section of  ${}^6\text{Li}(\text{p}, \Gamma){}^7\text{Be}$   
Chen Size
- 5) Preparation and Magnetic Properties of Core-Shell Nanowires and Nanotubes  
Chen Yonghui
- 6) In-Beam PET Performance Simulation And Image Reconstruction  
Chen Ze
- 7) Ionizing Radiation-Induced Novel Microrna Regulates Cellular Radiation Response  
Ding Nan
- 8) Modeling and Evaluating the Single Event Upset By Theoretical And Computational Simulation In Micro/Nano Scale Srams  
Geng Chao
- 9) Experimental Investigation of the Intermediate-Energy P-He Collisions and Optimization of the High-Energy Electron Magnetic Spectrometer  
Guo Dalong
- 10) Design and Development of A 7mev/U Heavy Ion Cyclotron  
Hao Huanfeng
- 11) Study of Mechanical Stability and Frequency Tuning for Low Beta Superconducting Half-Wave Resonator In High Intensity Proton Linac for China ADS  
He Shoubo
- 12) The Development of TOPOPIC Code And Halo Suppression Study In FODO Channel  
Li Chao
- 13) Ground-Based Simulated Microgravity Combined Carbon Ion Radiation on Reproductive Function Effects In Male Mice  
Li Hongyan
- 14) Resonant Slow Extraction Simulation for Ion Synchrotron  
Li Jie
- 15) Radiation Damage In the Novel High Silicon Reduced Activation Ferritic-Martensitic Steel  
Li Yuanfei
- 16) The Production of Charmonium/Charmoniumlike State and Charmed Baryon  
Lin Qingyong
- 17) Study on Negative Hydrogen Ion Sources  
Lin Shuhao
- 18) Study on Mutagenic Effects of Medium-Energy Carbon Ion Beams Radiation in Wheat (*Triticum Aestivum* L)  
Liu Qingfang
- 19) Study on the Radiosensitizing Effects of Genistein and Corresponding Mechanisms  
Liu Xiongxiang
- 20) Design, Construction and Optimization of High-B Mode ECR Ion Sources

Lu Wang

- 21) Multi-Physical Field Coupling of Heat And Mass Transportation in ADS Spallation Target System  
Meng Dongyuan
- 22) A Systematic Study on The Method Of Detecting Single Event Effects In Memories And The Performance Of ECC Module  
Tong Teng
- 23) Nucleon-Nucleon Correlations In Nuclear Matter  
Wang Pei
- 24) Study of High-Spin Level Structure in the Transitional Nuclei  $^{195}\text{Au}$  And  $^{195}\text{Pt}$   
Wang Sicheng
- 25) High-Spin States in the Doubly Odd Nucleus  $^{104}\text{Ag}$  and the Near-Spherical Nuclei  $^{91,92}\text{Zr}$   
Wang Zhigang
- 26) Alterations Of BTG1 and Its Regulatory Pathway after Heavy Ion Irradiation  
Wu Xin
- 27) Guiding of Highly Charged Ions Through A Flat Capillary and A Cylindrical Capillary  
Wu Yehong
- 28) The Injection Scheme of The Hadrontherapy Accelerator HIMM  
Xie Xiucui
- 29) The Study of Detector Systems for The Projectile Breakup and Beam Monitor on Carbon Ion Therapy  
Xu Zhiguo
- 30) Precision Mass Measurements of Neutron-De Cien Nuclei In Storage Rings  
Yan Xinliang
- 31) Dissociative Recombination of  $\text{NH}^+$   
Yang Bian
- 32) Study on The Control System of The High Intensity Proton RFQ for ADS Injector II  
Yu Chunlei
- 33) Identification of Biomarkers for the Diagnosis And Detection of Drug-Resistance In Tuberculosis  
Zhang Hongtai
- 34) Beam Dynamics Design And Research of The Linac Injectors In HIRFL  
Zhang Xiaohu
- 35) R&D of Superconducting Dipole Coil Prototype for HIAF Project  
Zhang Xiaoying
- 36) Performance Studies and Improvements of The Time-Of-Flight Detector for Isochronous Mass Measurements At CSRe  
Zhang Wei
- 37) Research on Electronics For The Silicon Microstrip Array Detector of CSR-ETF  
Zhao Xingwen
- 38) Design of A Portable Multi-Parameter Data Acquisition System  
Zhou Wenxiong
- 39) Role of Fanconi Anemia Pathway In The Repair of Clustered DNA Damage Induced By High-LET Radiation  
Zhu Jiayun
- 40) Decomposition of Non-Abelian Gauge Potential, QCD Vacuum Structure And Relevant Issues  
Zou Liping