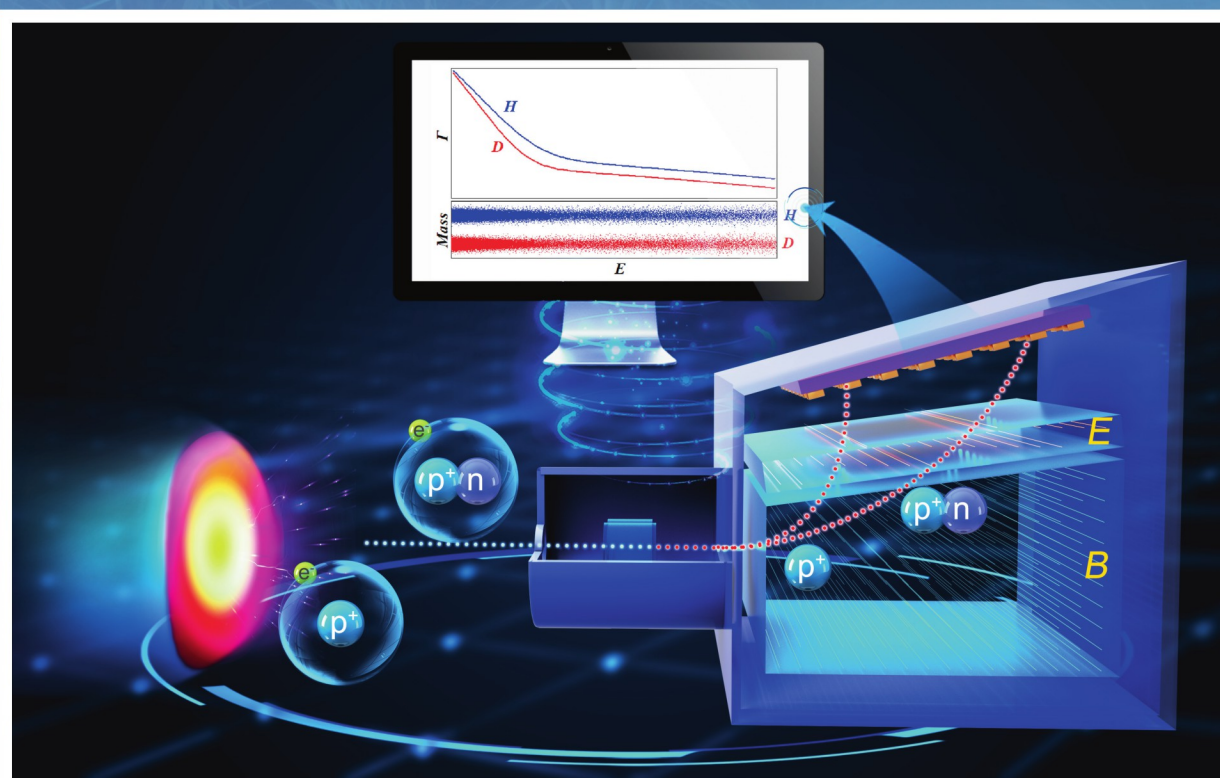


Nuclear Science and Techniques



Nuclear Science and Techniques

Volume 32 • Issue 7 • July 2021

ISSN: 1001-8042 (Paper); CN 31-1559/TL

SYNCHROTRON RADIATION TECHNOLOGY AND APPLICATIONS

- 71 Design study of APS-U-type hybrid-MBA lattice for mid-energy DLSR**
Y. Zhao · Y. Jiao · S. Wang

ACCELERATOR, RAY TECHNOLOGY AND APPLICATIONS

- 67 Simulation and photoelectron track reconstruction of soft X-ray polarimeter**
X.-F. Huang · H.-B. Liu · J. Zhang · B. Huang · W.-J. Xie · H.-B. Feng · X.-C. Cai ·
X.-W. Liu · Z.-L. Li · J.-Y. Gu · Q. Liu · J. Li · E.-W. Liang
- 77 System design and measurements of flux concentrator and its solid-state modulator for CEPC positron source**
J.-D. Liu · X.-P. Li · C. Meng · Y.-L. Chi · G.-X. Pei · D.-Y. He · J.-Y. Li · X.-J. Sun ·
J.-R. Zhang · L. Shang · J.-B. Zhu

NUCLEAR CHEMISTRY, RADIOCHEMISTRY, AND NUCLEAR MEDICINE

- 70 Radiation-induced cross-linking: a novel avenue to permanent 3D modification of polymeric membranes**
Y. Gu · B.-W. Zhang · Z. Guo · J.-H. Li · M. Yu · L.-F. Li · J.-Y. Li

NUCLEAR ELECTRONICS AND INSTRUMENTATION

- 68 Design of an energetic particle radiation diagnostic spectroscopy system based on national core chips and Qt on Linux in EAST**
Y.-Y. Zheng · Z.-H. Zhang · Q. Li · H.-R. Cao · Y.-Q. Zhang · J.-L. Zhao · Q.-P. Yuan ·
B.-J. Xiao · L.-L. Yan · J.-Q. Zhu
- 76 Design of real-time feedback control of vertical growth rate on EAST**
N.-N. Bao · Y. Huang · B.-J. Xiao · Q.-P. Yuan · Z.-P. Luo · Y.-H. Wang · S.-L. Chen

NUCLEAR PHYSICS AND INTERDISCIPLINARY RESEARCH

- 69 A simulation study of a windowless gas-stripping room in an E/B neutral particle analyzer**
Y. Luo · W.-P. Lin · P.-P. Ren · G.-F. Qu · J.-J. Zhu · X.-Q. Liu · X.-B. Luo · Z. An ·
R. Wada · L.-G. Zang · Y.-F. Qu · Z.-B. Shi
- 74 Impact of finite-range tensor terms in the Gogny force on the β -decay of magic nuclei**
D.-Z. Chen · D.-L. Fang · C.-L. Bai

(Table of contents continued on inside back cover)



万方数据



(Contents continued)

75 Effect of multiple parameters on the supersonic gas-jet target characteristics for laser wakefield acceleration

Q.-S. Liu · M.-J. Ma · B.-Z. Zhao · X.-H. Zhang · C. Lv · X.-H. Meng · J. Zhang · X.-N. Ban · Z. Wang · X.-F. Xi · B.-X. Tian · C.-Y. He · B. Guo

NUCLEAR ENERGY SCIENCE AND ENGINEERING

72 Theoretical analysis of long-lived radioactive waste in pressurized water reactor

Z.-X. Fang · M. Yu · Y.-G. Huang · J.-B. Chen · J. Su · L. Zhu

73 Numerical analysis of supersonic jet flow and dust transport induced by air ingress in a fusion reactor

B.-E. Wang · S.-C. Zhang · Z. Wang · J.-T. Jia · Z.-B. Chen

Nuclear Science and Techniques

Volume 32 • Issue 7 • July 2021

ISSN: 1001-8042 (Paper); CN 31-1559/TL

SYNCHROTRON RADIATION TECHNOLOGY AND APPLICATIONS

- 71 Design study of APS-U-type hybrid-MBA lattice for mid-energy DLSR**
Y. Zhao · Y. Jiao · S. Wang

ACCELERATOR, RAY TECHNOLOGY AND APPLICATIONS

- 67 Simulation and photoelectron track reconstruction of soft X-ray polarimeter**
X.-F. Huang · H.-B. Liu · J. Zhang · B. Huang · W.-J. Xie · H.-B. Feng · X.-C. Cai ·
X.-W. Liu · Z.-L. Li · J.-Y. Gu · Q. Liu · J. Li · E.-W. Liang
- 77 System design and measurements of flux concentrator and its solid-state modulator for CEPC positron source**
J.-D. Liu · X.-P. Li · C. Meng · Y.-L. Chi · G.-X. Pei · D.-Y. He · J.-Y. Li · X.-J. Sun ·
J.-R. Zhang · L. Shang · J.-B. Zhu

NUCLEAR CHEMISTRY, RADIOCHEMISTRY, AND NUCLEAR MEDICINE

- 70 Radiation-induced cross-linking: a novel avenue to permanent 3D modification of polymeric membranes**
Y. Gu · B.-W. Zhang · Z. Guo · J.-H. Li · M. Yu · L.-F. Li · J.-Y. Li

NUCLEAR ELECTRONICS AND INSTRUMENTATION

- 68 Design of an energetic particle radiation diagnostic spectroscopy system based on national core chips and Qt on Linux in EAST**
Y.-Y. Zheng · Z.-H. Zhang · Q. Li · H.-R. Cao · Y.-Q. Zhang · J.-L. Zhao · Q.-P. Yuan ·
B.-J. Xiao · L.-L. Yan · J.-Q. Zhu
- 76 Design of real-time feedback control of vertical growth rate on EAST**
N.-N. Bao · Y. Huang · B.-J. Xiao · Q.-P. Yuan · Z.-P. Luo · Y.-H. Wang · S.-L. Chen

NUCLEAR PHYSICS AND INTERDISCIPLINARY RESEARCH

- 69 A simulation study of a windowless gas-stripping room in an E/B neutral particle analyzer**
Y. Luo · W.-P. Lin · P.-P. Ren · G.-F. Qu · J.-J. Zhu · X.-Q. Liu · X.-B. Luo · Z. An ·
R. Wada · L.-G. Zang · Y.-F. Qu · Z.-B. Shi
- 74 Impact of finite-range tensor terms in the Gogny force on the β -decay of magic nuclei**
D.-Z. Chen · D.-L. Fang · C.-L. Bai

(Table of contents continued on inside back cover)



万方数据

