

技术及应用

电离辐射量与单位的体系演进述评

郑钧正¹; 曾志^{1, 2, 3}

1.清华大学 工程物理系, 北京100084 2.清华大学 粒子技术与辐射成像教育部重点实验室, 北京100084 3.清华大学 高能辐射成像国防重点学科实验室, 北京100084

收稿日期 修回日期 网络版发布日期:

摘要 科学又实用地统一计量电离辐射乃是各行各业广泛利用原子能科学技术以及预防与治疗电离辐射可能产生放射损伤所必不可少的重要前提和基础。关于电离辐射量与单位以及相应的测量和应用方法, 有关国际组织和世界各国均普遍采纳国际辐射单位与测量委员会(ICRU)这一公认的权威学术组织所提出的体系。本文着重评述电离辐射量与单位的体系在数十年来的主要演变进化概貌。

关键词 [电离辐射量](#) [单位](#) [演进](#) [国际辐射单位与测量委员会](#)

分类号

Review on Evolvement of Systems of Ionizing Radiation Quantities and Units

ZHENG Jun-zheng¹; ZENG Zhi^{1, 2, 3}

1. Department of Engineering Physics, Tsinghua University, Beijing 100084, China; 2. Key Laboratory of Particle & Radiation Imaging, Ministry of Education, Tsinghua University, Beijing 100084, China; 3. Key Laboratory of High Energy Radiation Imaging Fundamental Science for National Defense, Tsinghua University, Beijing 100084, China

Abstract To scientifically and practically measure the ionizing radiation in unison is an indispensable prerequisite and foundation for the extensive uses of nuclear science and technology, development of radiological protection and safety standards, as well as prevention and treatment of ionizing radiation hazards. Concerning about the quantities and units of ionizing radiation as well as their corresponding measurement and application methods, relevant international organizations and all countries in the world generally adopt the systems proposed by the International Commission on Radiation Units and Measurements (ICRU) which is a well recognized and authoritative academic organization. In the paper, the major evolutions of the systems for ionizing radiation quantities and units in the past decades are summarized.

Key words [ionizing radiation quantity](#) [unit](#) [evolvement](#) [International Commission on Radiation Units and Measurements](#)

DOI

通讯作者

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [\[PDF全文\]\(1052KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含“电离辐射量”的 相关文章](#)
- ▶ 本文作者相关文章

- [郑钧正](#)
- [曾志](#)
-
-