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Type: Poster presentation

Study on the Design and Production of a Prototype Liquid Level Detection Equipment Utilizing Geiger-Muller Detector

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The article discusses a research presentation on the design and manufacture of handheld radiation measurement devices using Geiger-Muller tubes counting gamma radiation, applied in educational settings. The research and development aim to support educational training, aiding students in comprehending the interactions of radiation with matter, contributing to the dissemination of knowledge about atomic energy applications, and enhancing the quality of presentations at the Nuclear Research Institute Training Center. Initial results have led to the creation of a portable radiation measurement device utilizing Geiger-Muller tubes and a 10 μ Ci Cs-137 gamma source, displaying the count on a 16×2 LCD screen, and powered by a 9VDC supply for ease of use and safety. This serves as a foundation for further research in developing radiation measurement devices using X-rays, with the goal of enhancing the visual and vivid aspects of lectures on atomic energy applications. The objective is to use gamma transmission methods without relying on complex and expensive equipment, ensuring radiation safety at the Training Center.

Minioral

Yes

IEEE Member

No

Are you a student?

No

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