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Radiation Physics for Nuclear Medicine Marie Claire Cantone & Christoph Hoeschen Editors Radiation Physics for Nuclear Medicine 13 Editors Prof. Dr. Marie Claire Cantone Università degli Studi di Milano Dept. of Physics Via Celoria 20133 Milano Italy [email protected]

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The Centre for Nuclear and Radiation Physics (CNRP) is a research centre of the Department of Physics at the University of Surrey. The studentship is funded for 3.5 years at normal UKRI studentship rates (equal to approximately £14,000 per year). Funding is provided by the Radiation Detection

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2 Lecture 1 Nuclear Sizes and Isotope Shifts Assume a uniform distribution of charge  $Ze$  in a spherical nucleus of radius  $R$ . Then calculate the potential inside nucleus  $V_{\text{inside}}$ .

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