

Neutron activational analysis
Giorgi Bliadze

Email: giorgi.bliadze129@ens.tsu.edu.ge

Department of Physics, Faculty of Exact and Natural Sciences, Ivane Javakhishvili Tbilisi State University,
3 Chavchavadze Avenue, Tbilisi, 0179, Georgia

The work discusses the neutron as an elementary particle, the history of its discovery, and its characteristic physical quantities. Neutron sources are also presented, including the Cf isotope $^{252}_{98}\text{Cf}$, with the highest neutron activity and a significantly small gamma background. The main emphasis is on neutron activation analysis and its application. Separately is discussed, as practical example, coring method by neutrons. It is shown that neutron activation analysis allows the detection of samples of such small mass that their study by other methods is practically impossible.