Study of the E_p = 992 keV resonance of the $^{27}Al(p,\gamma)^{28}Si$ reaction

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The 992 keV resonance is a very well known resonance of the $^{27}Al(p,\gamma)^{28}Si$ reaction. It is commonly used for accelerators energy calibration and to evaluate the detection effciency of gamma-ray setups. In the laboratory this resonance will be studied at the AN2000 accelerator by using a HPGe detector. The resonance parameters will be derived and the Al targets, used in the experiment, will be characterized, especially for the target thickness.