Measurement of the $p + {}^6Li \rightarrow {}^7Be + \eta$ reaction near threshold energies

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The $p+{}^6Li \rightarrow {}^7Be+\eta$ reaction near the kinematical threshold has been studied within the GEM Collaboration. Following the previous line of η-production and η-bound states studies on light nuclei. Proton beam of 1297 MeV/c, from the COSY Accelerator, Forschungszentrum Jülich, has been used to test the experimental setup. For the registration of the recoiled nuclei, the Big Karl Spectrometer operates as a full solid angle detector. The results of the test run as well as further detector improvements are discussed.

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