

Search for Eta'-mesic nuclei in $^{12}\text{C}(p, dp)$ reaction with WASA detector at GSI-FRS.

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We plan to conduct an experiment for exploring eta'-mesic nuclei by using the Wide Angle Shower Apparatus (WASA) detector at the fragment separator (FRS) in GSI. We aim at producing and observing eta'-mesic nuclei in $^{12}\text{C}(p, dp)$ reaction by employing 2.5 GeV proton beams. We use the WASA detector to detect protons from decays of eta'-mesic nuclei and the FRS to measure the momenta of the deuterons. In this talk, we report present status of the preparation for the experiment.

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