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Search for eta-mesic helium with WASA-at-COSY

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The existence of eta-mesic nuclei in which the eta meson is bound with nucleus via the strong interaction was postulated by Haider and Liu over thirty years ago, however till now it has not been confirmed experimentally.

The experiments dedicated to the search for eta-mesic helium were performed using WASA detection setup installed at the COSY accelerator in the Research Center Juelich.

The search for the eta-mesic bound states is conducted via the measurement of the excitation function for selected decay channels of the He-eta systems. This presentation will summarize the present status of the research.

Primary author: SKURZOK, Magdalena (INFN-LNF Frascati)

Presenter: SKURZOK, Magdalena (INFN-LNF Frascati)

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