

Abstract Submitted
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Results of the first beam time with the neutron decay spectrometer *a*SPECT STEFAN BAEßLER¹, FIDEL AYALA GUARDIA, MICHAEL BORG, KLAUS EBERHARDT, WERNER HEIL, GERTRUD KONRAD, RAQUEL MUÑOZ HORTA, YURI SOBOLEV, University of Mainz, IGOR KONOROV, GERD PETZOLDT, MARTIN SIMSON, OLIVER ZIMMER², Technical University of Munich, FERENC GLÜCK, Forschungszentrum Karlsruhe, DENNIS RICH³, Forschungsneutronenquelle FRM-II — With the neutron decay spectrometer *a*SPECT we aim to measure the proton spectrum in free neutron beta decay precisely. This allows us to determine the neutrino electron correlation coefficient a . We had our first test beam time in 2005/06 at the new neutron source FRM-II in Garching. In my talk I want to talk about the results, the systematic effects we found and the ways how to deal with them in later beam times.

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