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Response function simulation of the anti-coincidence detector based on NaI crystal with a complex shape in registration systems for experiments SAGE and BEST.

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Response function simulation using Geant 4 for the detector based on NaI crystal of complex shape in registration systems for SAGE and BEST experiments is presented. Cylindric NaI crystal has a large well for placing up to eight proportional counters. The detector is using as anti-coincidence shield for counters and an instrument for detail analysis of different gamma-rays sources. The result of detector response function simulation for different background sources and their registration efficiency are given.

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