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Efficiency calibration of the Crystal Ball

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Three different methods for the efficiency calibration of the gamma branch of the Crystal Ball detector have been automated and tested with the s393/s389 calibration data. The three different methods produce differing results. The causes of the different results have been identified. This leaves one method providing reliable efficiency calibration points at 1.18 MeV and 1.33 MeV for the s393/s389 experiment. Another of those three methods turned out to be promising for future usage with both the Crystal Ball and CALIFA.
The three different methods will be briefly introduced, their results presented and finally their different problems and merits discussed.

Primary author: Ms THIES, Ronja (Chalmers University of Technology)

Presenter: Ms THIES, Ronja (Chalmers University of Technology)

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