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Fast timing using the Mirror Symmetric Centroid Difference Method.

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The newly developed Mirror Symmetric Centroid Difference (MSCD) Method [1,2] will be presented. Applications using electron-electron, electron-gamma and gamma-gamma coincidences using a double-Orange spectrometer [3] and LaBr₃(Ce) demonstrate the high potential of this new method. This work was supported by the BMBF under contract 06KY9136I and GSI F&E under contract KJOLIE.

[1] J.M. Régis, G. Pascovici, J. Jolie, M. Rudigier, NIM A 622 (2010) 83.

[2] J.M. Régis, PhD thesis, University of Cologne (2011).

[3] J.M. Régis, et al. NIM A 606 (2009) 466.

[4] J.M. Régis, Th. Materna, G. Pascovici, S. Christen, A. Dewald, C. Fransen, J. Jolie, P. Petkov, K.O. Zell
Review of scientific instruments 81 (2010) 113505.

Autori principali: PASCOVICI, Gheorghe (Institut für Kernphysik, Universität zu Köln); JOLIE, Jan (Institut für Kernphysik, Universität zu Köln); RÉGIS, Jean-Marc (Institut für Kernphysik, Universität zu Köln); RUDIGIER, Matthias (Institut für Kernphysik, Universität zu Köln)

Relatore: JOLIE, Jan (Institut für Kernphysik, Universität zu Köln)

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