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Optimization of Beta-Gamma Detector Calibration for Xenon Detection

Three of four radio-xenon monitoring systems have been developed based on beta-gamma coincidence. Most important step in operation of Xe detection system is calibration by standards. An efficient method to accomplish this step is established using 137Cs gamma source. In that case the source position and detector geometrical design might effect the results. This paper will focus on some experimental study to explore radiation and light transport effects to calibration results.

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