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Studies of the effect of charged hadrons on Lead Tungstate crystals

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Summary

Scintillating crystals are used for calorimetry in several high-energy physics experiments. For some of them, performance has to be ensured in difficult operating conditions, like a high radiation environment, very large particle fluxes and high collision rates. Results will be presented from a thorough series of complementary measurements concerning the effect of charged hadrons on Lead Tungstate crystals. It will also be shown how these results can be used to predict the effect on crystals due to a given flux of particles.

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