

Abstract Submitted  
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**The study of the correlation between  $(\alpha, \gamma)$  induced events with respect to Radon annual modulation.**<sup>1</sup> ASHOK TIWARI, CHAO ZHANG, DONGMING MEI, Univ of South Dakota — We observed  $(\alpha, \gamma)$  reaction that generates high energy gammas in Soudan mine with a 12 liter liquid scintillation detector. With a model established to describe the correlation between  $(\alpha, \gamma)$  induced events with radon annual modulation, we demonstrate that  $(\alpha, \gamma)$  induced events are highly correlated with the radon modulation. These  $(\alpha, \gamma)$  induced events can be potential background events for rare event physics.

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