

Abstract Submitted
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Dusting and time dependence of x-ray triboluminescence of adhesive tape KARL DECKER, KELLY MCGUIRE, JONATHAN WILSON, BYU-Idaho — The intensity of x-ray triboluminescence from a continuously running belt of adhesive tape is highly time dependent, with a shape roughly like $1/t$. Aiming to uncover mechanisms underlying time dependence and prolonging high-intensity x-ray production we investigated Zinc Oxide dusting which led to an entirely different regime of intensity as a function of time, hinting at glue flow and beta radiation damage as possible reasons for decreased intensity over time.

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