

Abstract Submitted  
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**Paired Scission Neutrons** KAECEE TERRY, JOHN E ELLSWORTH, LAWRENCE REES, Brigham Young University — During fission of heavy nuclei, neutrons are emitted from the fission fragments and the scission point. It is postulated that scission neutrons can be emitted in pairs. This correlation may lead to a better understanding of the spatial and temporal characteristics of the nuclear fission process. With the use of Time of Flight techniques and capture-gated detectors, paired neutrons may be observable. Reported here are our efforts at BYU to investigate these paired neutrons by utilizing a Lithium-Gadolinium-Borate detector and specifically developed analytical code.

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