

Abstract Submitted  
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**Time Resolved, High Resolution Gamma Ray and Integrated Charged and Knock-on Particle Measurements of a Pd:D Co-deposition Cell** LAWRENCE P.G. FORSLEY, GARY PHILLIPS, JAY KHIM, JWK Technologies Corporation, 7617 Little River Turnpike Suite 1050, Annandale, VA 22003, PAMELA MOSIER-BOSS, FRANK GORDON, STANISLAW SZPAK, SPAWAR Space Systems Center, San Diego — Time resolved, with a 10 second interval, high resolution gamma ray measurements using a high efficiency cryogenically cooled gamma ray detector have been taken simultaneously with a CR-39 integrating charged particle detector on a series of experiments in conjunction with the Navy SPAWAR Pd:D co-deposition cell. These results include anomalous, coincident, gamma ray emissions from witness materials in the cell in conjunction with the CR-39 data. There is evidence of a variety of knock-on particles as well. The copious data, exceeding 10,000 tracks/mm<sup>2</sup>, offers a means to distinguish among various condensed matter nuclear science theories.

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