

Abstract Submitted  
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**Rapidly Slowing Microdrops, Quantized Pixel Detectors and More at Hartnell College in Salinas, CA**<sup>1</sup> SEWAN FAN, LAURA FATUZZO, Hartnell College, BROOKE HAAG, American River College — In this conference, we describe the Research Scholar Institute program, a unique physics research internship program administered at Hartnell College. Specifically, we present a novel dynamics of microdroplet experiment which develops from the search for fractional charge experiment at SLAC, cosmic ray physics experiments that implements multipixel photon counters (MPPC) which show quantized photon distribution peaks, and other innovative physics experiments. Our internship program has successfully mentored community college STEM students to do research both at Hartnell College and at Department of Energy labs that include Lawrence Berkeley Lab and FermiLab.

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