

Abstract Submitted
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Undergraduate research in nuclear physics in Youngstown State University's Isomer Physics Project¹ JAMES CARROLL, Youngstown State University — Experimental research into the interaction of isomeric nuclei with the electromagnetic field has been conducted by the YSU Isomer Physics Project for more than a decade. Among the numerous studies have been a detailed investigation of the induced depletion of nature's rarest isotope, ^{180}Ta , and the characterization of a new 2.29 s isomer in ^{174}Tm . The backbone of these efforts has been comprised of undergraduate students from a variety of majors, performing experiments at facilities such as SPring-8 (Japan), Argonne National Laboratory (with Gammasphere), TRIUMF (Canada) and YSU's own X-ray Effects Laboratory (XEL). This talk will briefly survey the involvement of undergraduate students in this work.

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James Carroll
Youngstown State University

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