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Investigation of 152,153 Dy¹ BABAK SHORAKA, Yale University/University of Surrey, VOLKER WERNER, ELIZABETH MCCUTCHAN, HO-CHIANG AI, ROBERT J. CASPERSON, RICK CASTEN, ANDREAS HEINZ, Yale University, BERNHARD HUBER, Yale University/University of Heidelberg, ROBERT LUETTKE, Yale University/TU Darmstadt, JING QIAN, RUSS TERRY, ELIZABETH WILLIAMS, RYAN WINKLER, Yale University — 152Dy is one of the most studied nuclei in the nuclear chart. Excited states in 152Dy (and 153Dy) were populated via the 124Sn(33S,Xn) reaction with the beam being delivered by the ESTU tandem accelerator at the Wright Nuclear Structure Laboratory. The New Yale Plunger Device (NYPD) was used in the SPEEDY array. Lifetimes are determined using the differential decay curve method from gamma-gamma coincidence data. First results will be presented.

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