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The Calculation of H $\beta$  Color Indices for  $\delta$  Scuti Variable Stars<sup>1</sup> KELSEY JORGENSON, ERIC HINTZ, D.K. SHREEVE, Brigham Young University — As part of research astronomers gather and analyze information about stars' fundamental properties. One such piece of information lies in the hydrogen beta index, gathered through spectral observations. The H- $\beta$  index is commonly used to measure surface temperature of stars as well as the age of stars or clusters. As such, it is a valuable piece of information for astronomical objects. In this study we present several hundred previously unpublished or updated H- $\beta$  index values of  $\delta$  Scuti variable stars. The values were calculated from a calibration using spectroscopic observations obtained at the Dominion Astrophysical Observatory of 190  $\delta$  Scuti stars north of -1° declination and brighter than 13th magnitude.

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Kelsey Jorgenson Brigham Young University

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