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We undertook a hare-and-hound test in order to examine the capability of the Moment Method and the Pixel-by-Pixel Method for the identification of pulsation modes in Delta Scuti stars. For this purpose, we created theoretical line profiles, simulating spectroscopic multi-site campaigns of two Delta Scuti stars - one with low and one with high  $v \sin i$ , exhibiting pulsation frequencies of different degree  $\ell$  and azimuthal order  $m$ . We tried to pinpoint the model input-parameters, including  $\ell$ ,  $m$ , intrinsic amplitude, and the inclination, which were not known by us, by applying both methods independently and using a combined method. In this poster, we present the results of this experiment.

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