

# Number Estimation of delta Scuti Type Variables

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Delta Scuti stars are pulsating variables located in the classical instability strip on and just above the main sequence with spectral types from A2 to F2. Delta Scuti stars are relatively less studied variables, and the number frequency of this type of variables is almost totally unknown. The ROTSE Survey for Variables Catalog 1 (RSV1) originally identified 91 delta Scuti stars, but their number frequency is still not readily known. Here, we calculate the number of stars that are expected to fall in the delta Scuti area of the H-R diagram for the magnitude range and sky coverage of the RSV1. By comparing this number to the actual, observed number of delta Scuti stars in the RSV1, we estimate the number frequency of variable stars in the delta Scuti area of the H-R diagram that have amplitudes larger than the detection limit of the RSV1.