

RR Lyrae stars, as pulsating stars, serve as excellent tracers of the old populations within our galaxy. For decades, these stars have been relied upon to study the structure, origin, and evolution of the Galaxy's innermost regions. In our project, we focus on the analysis of radial velocities and employ the Delta-S method. This approach is centered around the examination of specific spectral lines, including H-alpha, H-beta, H-delta, H-gamma, CaH, and CaT. Our investigation into the kinematic behaviors and metallicity characteristics of RR Lyrae stars provides deeper insights into the Galaxy's chemical composition and dynamic processes. This research not only augments our understanding of these pulsating stars but also contributes significantly to the broader field of galactic astrophysics.