

This scatter plot displays the evolution of luminosity for two groups of stars, labeled 'i' (purple) and 'z' (cyan), over time. The x-axis represents time in Modified Julian Days (MJD), ranging from approximately 5630 to 5745. The y-axis represents the logarithm of luminosity relative to the Sun's luminosity ( $\log_{10}(L/L_{\odot})$ ), ranging from -1 to 4. The data points are clustered into three main groups, each showing a similar pattern of luminosity evolution. The 'i' group generally shows higher luminosity than the 'z' group, with both groups exhibiting a peak in luminosity around MJD 5660-5670 and a subsequent decline. The 'z' group shows a significant outlier at MJD 5700 with a luminosity of approximately -1.5.

