

A scatter plot showing the relationship between $\log_{10}(L/L_{\odot})$ (Y-axis) and time [MJD] (X-axis). The X-axis ranges from 5630 to 5740, and the Y-axis ranges from 0 to 4. Data points are categorized by filter: g (purple), r (blue), i (green), and z (orange). The plot displays four distinct clusters of data points, each corresponding to a different time interval. The clusters are located at approximately 5630, 5660, 5700, and 5735 MJD. The Y-axis values for these clusters are generally between 0.5 and 2.5, with a few outliers reaching up to 4.0. The 'g' filter points are consistently at the lower end of the Y-axis scale, while the 'z' filter points are more spread out.

