

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 0.0 to 4.0. The data points are categorized into four groups: g (purple), r (cyan), i (green), and z (orange). The plot displays four distinct clusters of points, each corresponding to a different time interval. The clusters are located at approximately (5635, 1.5), (5660, 1.5), (5700, 1.5), and (5735, 1.5). The 'g' group (purple) is consistently the highest in the clusters, while the 'z' group (orange) is consistently the lowest. The 'r' (cyan) and 'i' (green) groups are intermediate. There are also several outliers, particularly at higher luminosities and later times.

