

A scatter plot showing the relationship between $\log_{10}(L/L_{\odot})$ (Y-axis) and time [MJD] (X-axis). The X-axis ranges from 56300 to 57400, and the Y-axis ranges from 0 to 10. The data points are categorized by filter: 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 (56350, 4.5), (56600, 5.5), (57000, 5.5), and (57350, 5.5). The z filter (orange) shows the highest luminosity values, while the g filter (purple) shows the lowest. The r filter (cyan) and i filter (green) show intermediate values. The legend in the top right corner identifies the filters: g (purple), r (cyan), i (green), and z (orange).

