

The figure is a scatter plot showing the time evolution of the color index  $g-r$  for a source. The x-axis represents time in Modified Julian Days (MJD), ranging from approximately 5630 to 5740, with major ticks at 56400, 56600, 56800, 57000, 57200, and 57400. The y-axis represents the color index  $g-r$ , ranging from 0.0 to 1.0, with major ticks at 0.0, 0.2, 0.4, 0.6, 0.8, and 1.0. Data points are colored according to the filter used for observation: g (purple), r (cyan), i (green), and z (orange). The plot shows several clusters of points at different times, with a notable outlier at approximately MJD 5658 and  $g-r \approx 0.4$ . A legend in the bottom left corner identifies the filter colors.

