

The figure is a scatter plot showing the evolution of the color index ( $g-r$ ) over time (MJD). The x-axis is labeled 'time [MJD]' and ranges from 5630 to 57400. The y-axis is labeled ' $g-r$ ' and ranges from 0.0 to 1.5. The data points are color-coded by filter: g (purple), r (blue), i (green), and z (orange). The plot shows several clusters of points, indicating periods of relatively stable color index, with some outliers at higher  $g-r$  values.

