

A scatter plot showing the evolution of the color index ( $g-r$ ) over time (MJD) for a sample of 1000 objects. The x-axis is labeled 'time [MJD]' and ranges from 56300 to 57400. The y-axis is labeled ' $g-r$ ' and ranges from 0.0 to 2.5. The data points are colored according to the filter used: g (purple), r (blue), i (green), and z (orange). The plot shows a dense distribution of points with some outliers, particularly at higher  $g-r$  values and later times.

