

A scatter plot showing the time evolution of the color index ($g-r$) for a sample of 1000 stars. The x-axis is 'time [MJD]' ranging from 56300 to 57400. The y-axis is ' $g-r$ ' ranging from 0.0 to 1.5. Data points are colored by spectral type: 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.

