

A scatter plot showing the time evolution of the color index ($g-r$) for a sample of 1000 galaxies. The x-axis is 'time [MJD]' ranging from 56300 to 57400. The y-axis is ' $g-r$ ' ranging from 0.0 to 1.0. Data points are colored by redshift: g (purple), r (blue), i (green), and z (orange). The plot shows four distinct clusters of points, each representing a different redshift population. The $g-r$ index generally increases with time, with the z cluster (orange) showing the highest values and the g cluster (purple) showing the lowest values.

