

The figure is a scatter plot showing the time evolution of the color index $g-r$ for a sample of 1000 galaxies. The x-axis represents time in Modified Julian Days (MJD), ranging from approximately 5630 to 5740. The y-axis represents the color index $g-r$, ranging from 0.0 to 1.0. The data points are colored according to their redshift (z), as indicated by the legend in the top right corner: g (purple), r (blue), i (green), and z (orange). The plot shows four distinct clusters of points at different times, with a significant outlier at high $g-r$ around MJD 5728.

