

The figure is a scatter plot showing the time evolution of the color index $g-r$ for a sample of 100 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 the filter used for observation: g (purple), r (blue), i (green), and z (orange). The plot displays four distinct clusters of points, suggesting different populations or evolutionary stages of the galaxies. A legend in the top right corner identifies the filter colors.

