

A scatter plot showing the absolute magnitude  $M_v$  (Y-axis) versus time in Modified Julian Days (MJD) (X-axis). The data points are categorized by filter:  $r$  (red),  $i$  (blue), and  $z$  (green). The plot displays three distinct clusters of data points, suggesting a periodic phenomenon. The Y-axis ranges from -15 to 15, and the X-axis ranges from 56300 to 57400 MJD. A legend in the top right corner identifies the filter colors.

