

A scatter plot showing the time evolution of the color index ($r-i$) for a sample of 100 galaxies. The x-axis is labeled "time [MJD]" and ranges from 5630 to 5740. The y-axis is labeled " $r-i$ " and ranges from 0.0 to 1.0. The data points are colored according to their redshift (z): purple for $z=0$, blue for $i=0$, and green for $z=0$. The plot shows a general trend of decreasing $r-i$ over time, with significant scatter. A legend in the top right corner identifies the colors.

