

Figure 1 is a scatter plot showing the time evolution of the color index ( $r-i$ ) for the SNR 1401-07. The x-axis represents time in Modified Julian Days (MJD), ranging from approximately 56300 to 57400. The y-axis represents the color index  $r-i$ , ranging from 0.0 to 1.0. The data points are colored according to the filter used for observation: red (r), blue (i), and green (z). The plot shows three distinct clusters of points, indicating different phases of the supernova's light curve. A legend in the top right corner identifies the filter colors.

