

The figure displays a scatter plot of simulated Type Ia supernova light curves. The x-axis represents time in Modified Julian Days (MJD), ranging from 5630 to 5740. The y-axis represents magnitude (mag), ranging from 12 to 18. The plot is divided into four panels by vertical dashed lines at MJD 5650, 5680, 5700, and 5720. Each panel contains data points for four filters: g (purple), r (blue), i (green), and z (orange). The data points show a general upward trend in magnitude over time, with some scatter and outliers.

