

This scatter plot displays the relationship between four astronomical filters: g (purple), r (cyan), i (light green), and z (orange). The x-axis represents a color index, likely $r-i$, ranging from approximately 5630 to 57400. The y-axis represents a magnitude, ranging from approximately 13.5 to 16.5. The data points form a distinct sequence, with the z filter points (orange) generally having the highest magnitude (faintest) and the g filter points (purple) having the lowest magnitude (brightest) for a given color index. The r (cyan) and i (light green) filter points fall in between, following a similar trend.

