

A scatter plot showing 1000 simulated data points. The x-axis ranges from 56200 to 57400, and the y-axis ranges from 0 to 1000. The points are colored according to their cluster membership, as indicated by the legend in the top right corner:

- g**: Purple
- r**: Blue
- i**: Green
- z**: Orange

The plot displays four distinct clusters of points. The 'z' cluster (orange) is the most numerous and is distributed across the entire x-range. The 'i' cluster (green) is also widely distributed. The 'r' cluster (blue) consists of a few points, mostly in the central and right portions of the plot. The 'g' cluster (purple) is not visible in this plot, likely due to its very low frequency or overlap with other clusters.

