

Figure 1 is a plot of rotation curves for NGC 4449. The x-axis represents the Radius in kiloparsecs (kpc), ranging from 0.0 to 3.5. The y-axis represents the velocity  $v$  in kilometers per second (km/s), ranging from 0 to 100. The plot shows four theoretical curves: 'Total' (red line), 'DM Only' (black line), 'Gas' (blue line), and 'Stars' (orange line). The 'Total' curve is the highest, followed by 'DM Only', 'Gas', and 'Stars'. Data points are shown as open circles with vertical error bars, which are fitted to the 'Total' curve. The 'Total' curve is surrounded by a light red shaded region indicating uncertainty. The 'DM Only' curve is a solid black line. The 'Gas' curve is a solid blue line. The 'Stars' curve is a solid orange line.

