

Ideal
Reference
Probability
Density
Function

Latent
Probability
Density
Functions

y



The figure illustrates a concept in probability density functions. It features a horizontal axis labeled y . A single, smooth black curve, representing the 'Ideal Reference Probability Density Function', is centered on the axis. Overlaid on this black curve is a dense collection of many thin, semi-transparent red curves, representing the 'Latent Probability Density Functions'. These red curves are also centered around the same region as the black curve but exhibit a wide variety of shapes and peak heights, suggesting a distribution of different latent models or parameters. The labels are placed to the left and right of the curves, and the x-axis has arrows at both ends.