Definitions

- For notational simplicity, $x = \frac{\alpha}{Fe}$ and $y = \frac{Fe}{H}$
- ► Formally, given m mixture components, the density from which all observations are drawn is as shown
- ightharpoonup each observation comes from one of the mixture components with some probability π_j
- ightharpoonup The mixing proportions, π must be non-negative, and sum to 1
- \triangleright the mixture components, f_i , are known and taken as given