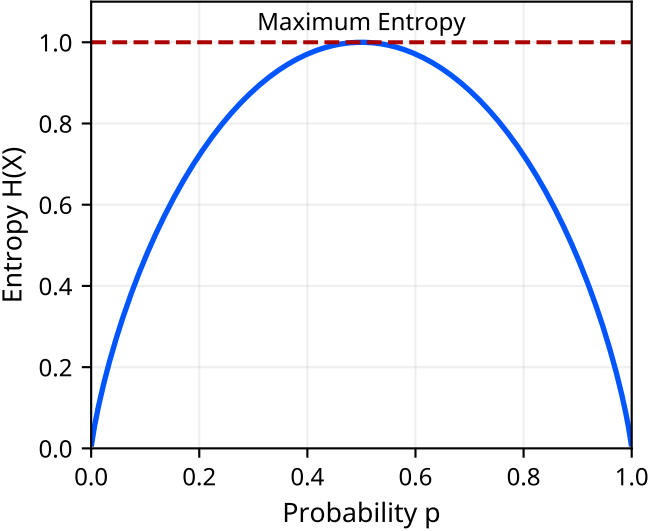
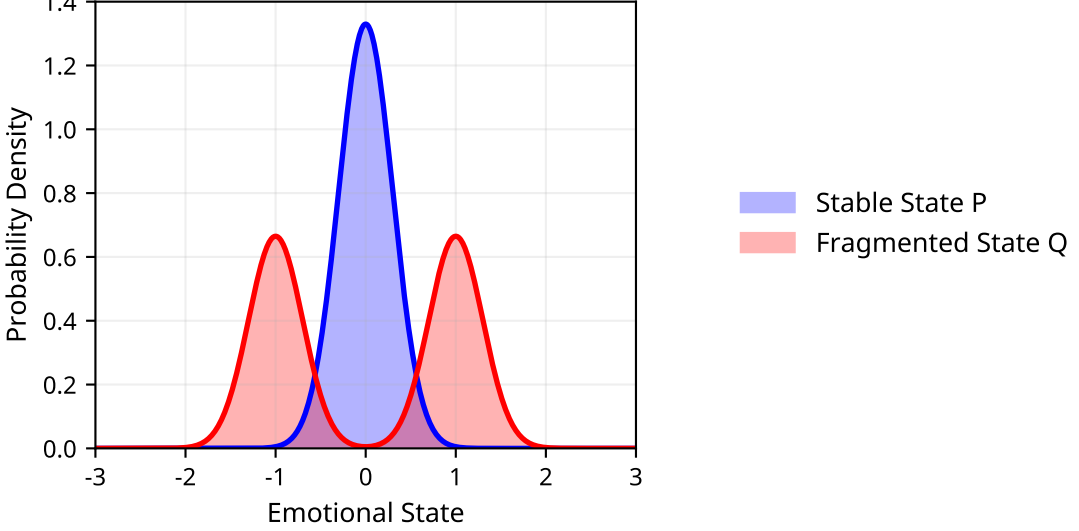


# Mathematical Foundations of ReUnity Framework

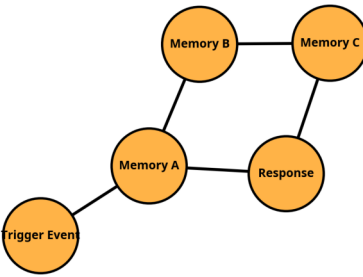
**A Shannon Entropy**  $H(X) = -\sum p \log_2 p$



**B KL Divergence**  $D(P||Q) = \sum p \log_2 \frac{p}{q}$



**C Mutual Information**  $MI(X; Y) = \sum p_{xy} \log_2 \frac{p_{xy}}{p_x p_y}$



**D Lyapunov Exponent**  $\lambda = \lim_{n \rightarrow \infty} n^{-1} \sum \log_2 |dS/dt|$

