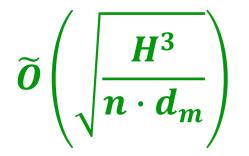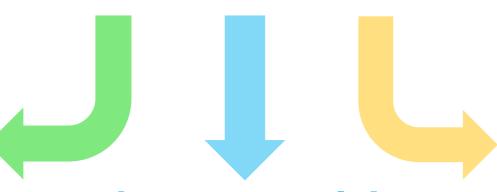# Intrinsic Offline Learning Bound

$$\sum_{h=1}^{H} \sum_{s_h, a_h} d_h^{\pi^*}(s_h, a_h) \sqrt{\frac{\mathrm{Var}_{P_{s_h, a_h}}(V_{h+1}^* + r_h)}{d_h^{\mu}(s_h, a_h)}} \cdot \sqrt{\frac{1}{n}}$$

Uniform Visitation

$$\tilde{O}\left(\sqrt{\frac{H^3}{n \cdot d_m}}\right)$$

Single Concentrability

$$\tilde{O}\left(\sqrt{\frac{H^3 S C^*}{n}}\right)$$

Adaptive Domain

$$\tilde{O}\left(\sum_{h=1}^{H} \sqrt{\frac{\mathbb{Q}_h^*}{n \cdot d_m}}\right) + \tilde{O}\left(\frac{H^3}{n \cdot d_m}\right)$$