

$$\phi(G) = O(k) \frac{\lambda_2}{\sqrt{\lambda_k}}$$

$$\min_{c \in \mathbb{R}^E} \|\mathbf{U}^{-1}(f - \mathbf{P}c)\|_\infty$$

$$\max_{w_i \geq 0} \ln \det(A_x^\top W^{1-\frac{2}{q}} A_x) - \left(1 - \frac{2}{q}\right) \sum_{i=1}^m w_i$$

$$\mathbf{M} \approx_\gamma \begin{bmatrix} \mathbf{I} & \mathbf{0} \\ \mathbf{Z}_{FF}^{(k)} \mathbf{M}_{FC} & \mathbf{I} \end{bmatrix} \begin{bmatrix} \mathbf{M}_{FF} & \mathbf{0} \\ \mathbf{0} & \widetilde{\text{Sc}}(\mathbf{M}, F) \end{bmatrix} \begin{bmatrix} \mathbf{I} & \mathbf{M}_{CF} \mathbf{Z}_{FF}^{(k)} \\ 0 & \mathbf{I} \end{bmatrix}$$

$$D_t \frac{dx}{dt} = -\frac{1}{2} g(x)^{-1} \text{Tr} [g(x)^{-1} Dg(x)],$$

$$\frac{dx}{dt}(0) \sim N(0, g(x)^{-1}).$$

$$\mathbb{P}_{x \sim p}(f(x) \geq \mathbb{E}f(x) + t) \leq e^{-O(t^2)/(t+\sqrt{n})}.$$

$$\sum_{u \in T} w_u \sum_{i \geq 1} (x_{u,i} + \delta) \log(x_{u,i} + \delta).$$