

Start

$\lambda_0$  guess

Quantum Computer

$$M_{kq} = i \frac{\partial \langle \Psi |}{\partial \lambda_k} \frac{\partial | \Psi \rangle}{\partial \lambda_q} - i \frac{\partial \langle \Psi |}{\partial \lambda_q} \frac{\partial | \Psi \rangle}{\partial \lambda_k}$$

$$V_k = \frac{\partial}{\partial \lambda_k} \langle \Psi | \hat{H} | \Psi \rangle$$

$M, V$

$\lambda$

Classical Computer

$$L = \frac{i}{2} \langle \Psi | \frac{\partial | \Psi \rangle}{\partial t} - \frac{i}{2} \frac{\partial \langle \Psi |}{\partial t} | \Psi \rangle - \langle \Psi | \hat{H} | \Psi \rangle$$