$$V(t) = V_0 e^{-(t-t_0)^2/2\sigma^2}$$

$$\sigma = \frac{\text{FWHM}}{2.35} = 0.426$$

$$K^2 = \sum_i (\text{data}_i - \text{model}_i)^2$$

$$f(A,t) = \sum_i \left(\text{data}_i - A e^{-(t_i-t)^2/2\sigma^2}\right)^2$$

$$\nabla f = \frac{\partial f}{\partial A}\hat{\imath} + \frac{\partial f}{\partial t}\hat{\jmath}$$

$$\frac{\partial f}{\partial A} \simeq \frac{f(A_1+\delta A, t_1) - f(A_1-\delta A, t_1)}{2\,\delta A}$$

$$\frac{\partial f}{\partial t} \simeq \frac{f(A_1, t_1+\delta t) - f(A_1, t_1-\delta t)}{2\,\delta t}$$

$$f(4+0.5, 7) = 108$$

$$f(4-0.5, 7) = 94$$

$$f(4, 7+0.5) = 4$$

$$f(4, 7-0.5) = 224$$

$$\hat{h} = -\left(\frac{14}{\sqrt{14^2+220^2}}\right)\hat{\imath} + \left(\frac{220}{\sqrt{14^2+220^2}}\right)\hat{\jmath}$$

$$\text{new } (A,t) = (A,t) + \text{stepsize} * \hat{h}$$