































































• • Data
— Fit 0.95Q
— Fit 1.00Q
— Fit 1.05Q
$$\bigstar \star f_r$$

$$S_{21}(f) = ae^{-2\pi j f au} igg[1 - rac{Q_r/Q_c e^{j\phi_0}}{1 + 2jQ_r(rac{f - f_r}{f_r})} igg]$$

 $f_r = 3.39555921679$ $Q_r = 7401.85394828$

 $Q_c = 230849.721209$

a = (-0.00357326742841 + 0.00838323398897j)

 $\begin{array}{l} \phi_0 = 0.802128566402 \\ \tau = 39.4212323816 \end{array}$













































