



---

# Latest Data from the Basement Anelastic Relaxation Facility

Phil Willems  
Jaap Weel

Hanford LSC meeting, 2001

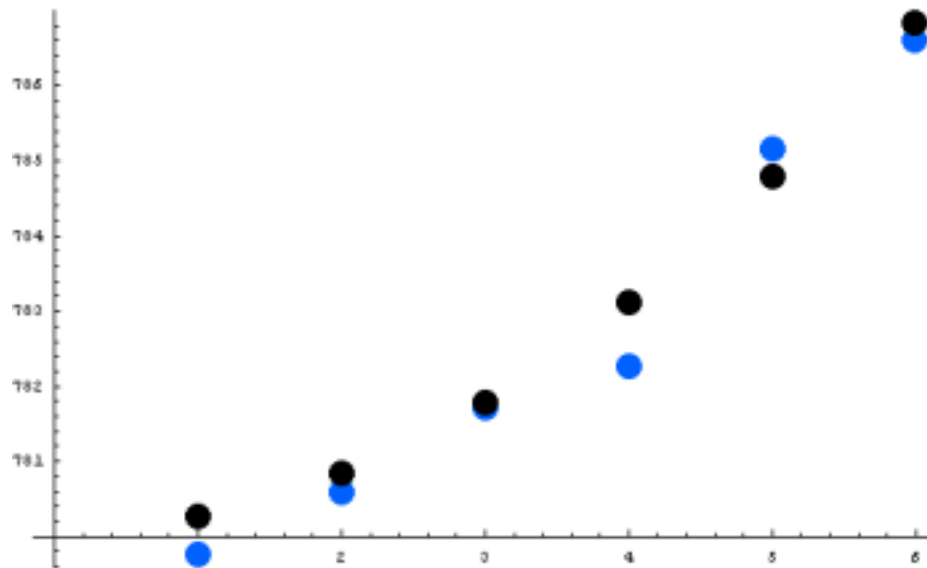
# Suspensions Apparatus

Automated fiber pulling lathe



Q-measurement rig

# Mode frequencies well fit by uniform model



● Measured data

● Fit of model to data

# Independent Measurement of Dilution Factor

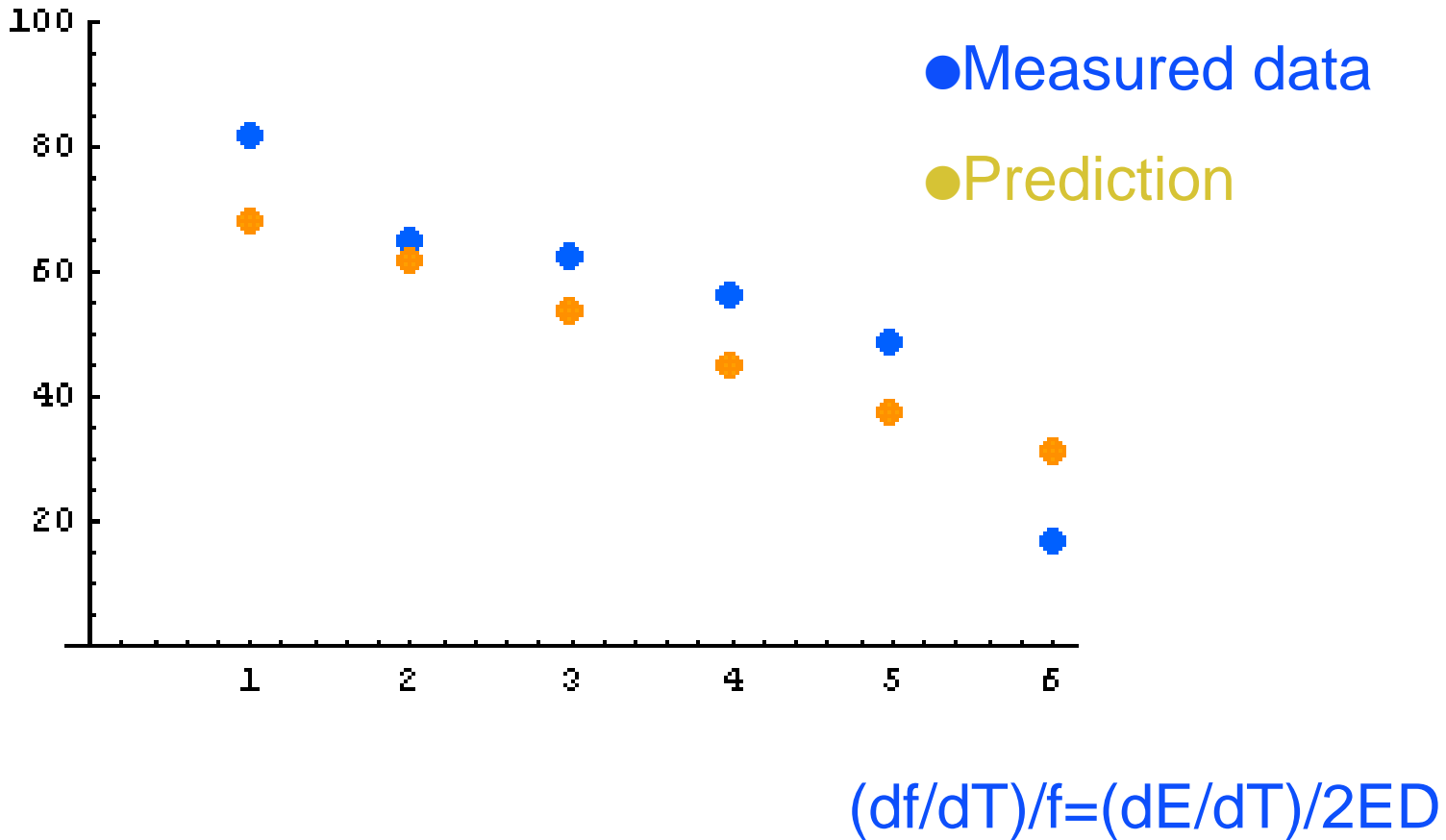
---

For violin mode of fiber at thermoelastic strain point,

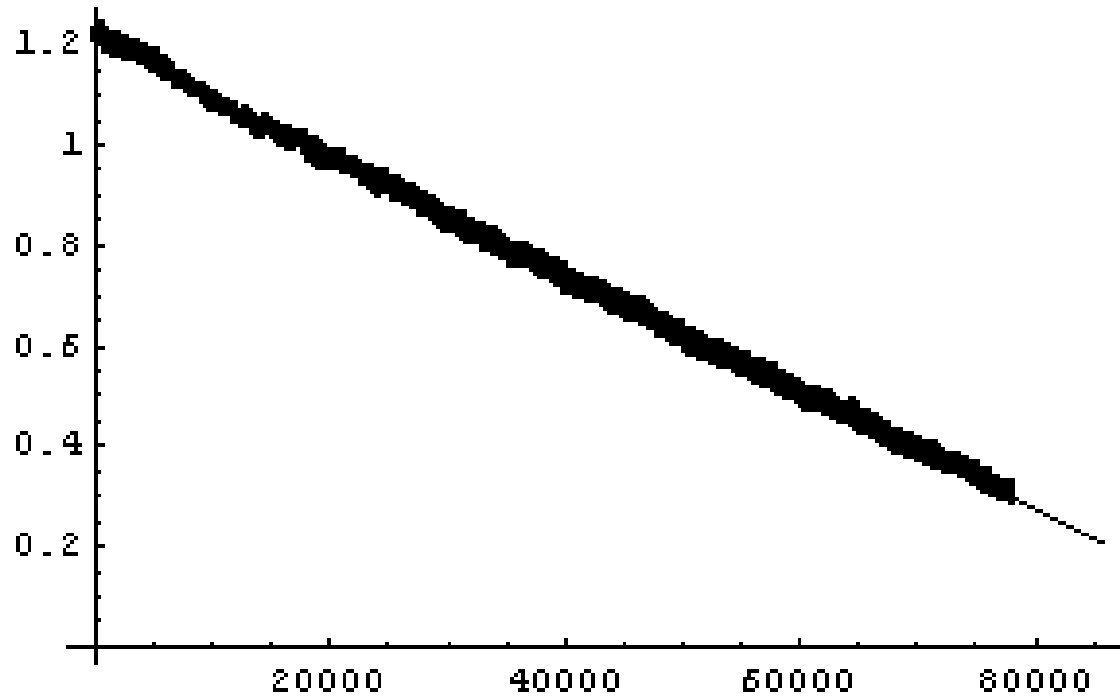
$$(df/dT)/f=(dE/dT)/2ED$$

where  $D$  is the dilution factor.

# Measured vs. Predicted Dilution Factors



# Ringdown of 1<sup>st</sup> Harmonic



$f=1561$  Hz

$Q=4.2e8$

# Measured Q's, very preliminary

