



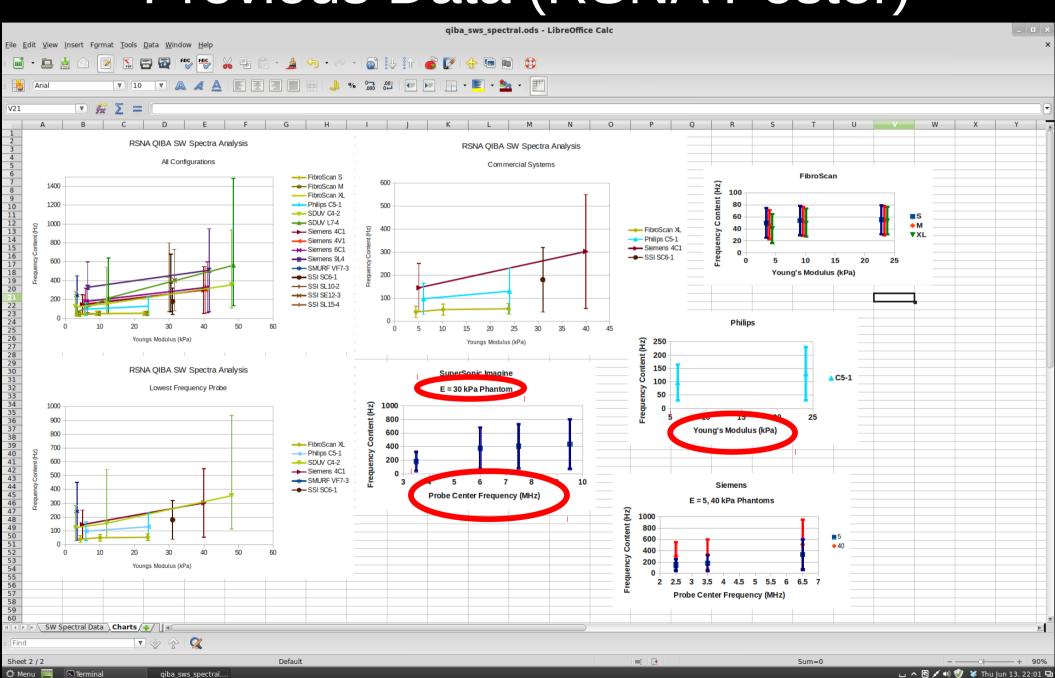
### CIRS Elastic Phantom Spectral Data

- Previous effort (Fall 2012) to evaluate spectral data between systems was confounded by:
  - Different phantoms: Stiffness? Viscosity?
  - Different focal depths
  - Non-standard spectral methods
- Opportunity to now standardize that measurement process and re-present that analysis





## Previous Data (RSNA Poster)

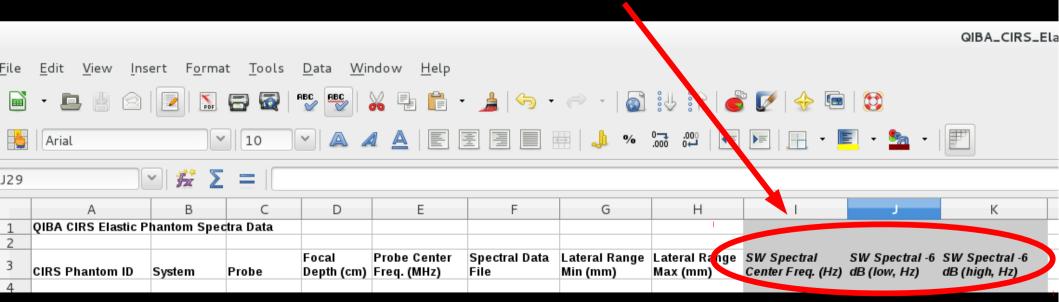






### CIRS Elastic Phantom Study

- "Same" two phantoms distributed to each study site
- Standardized focal depths and acquisition methodology
  How do we standardize this characterization?







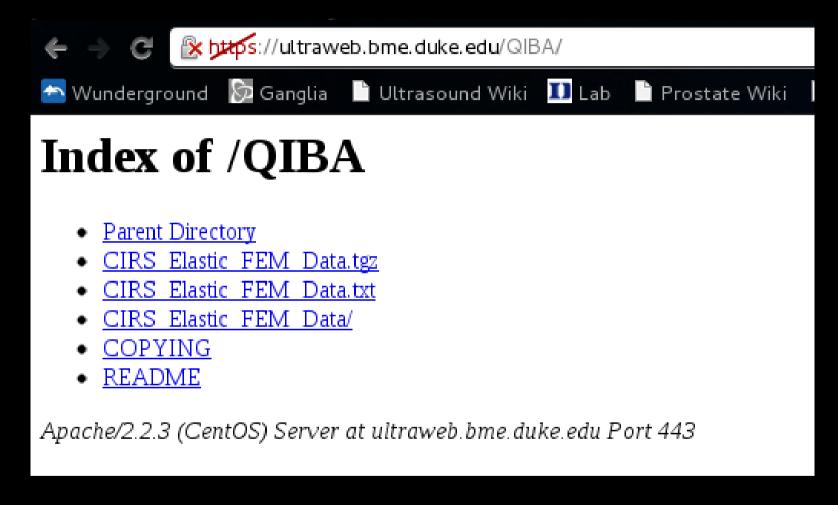
### Spectral Analysis Options

- Each study site sends a common person their data to analyze
  - Mean velocity (differentiated displacement) profiles
  - Apply any proprietary filtering before hand-off
- Standard protocol for each site to perform
  - Metrics to report?
    - Center, -6 dB low / high?
      - What if not symmetric about center frequency?
      - Alternative summary metrics?
    - Raw plots?





#### CIRS Elastic Phantom FEM Data



URL: <a href="https://ultraweb.bme.duke.edu/QIBA/">https://ultraweb.bme.duke.edu/QIBA/</a>

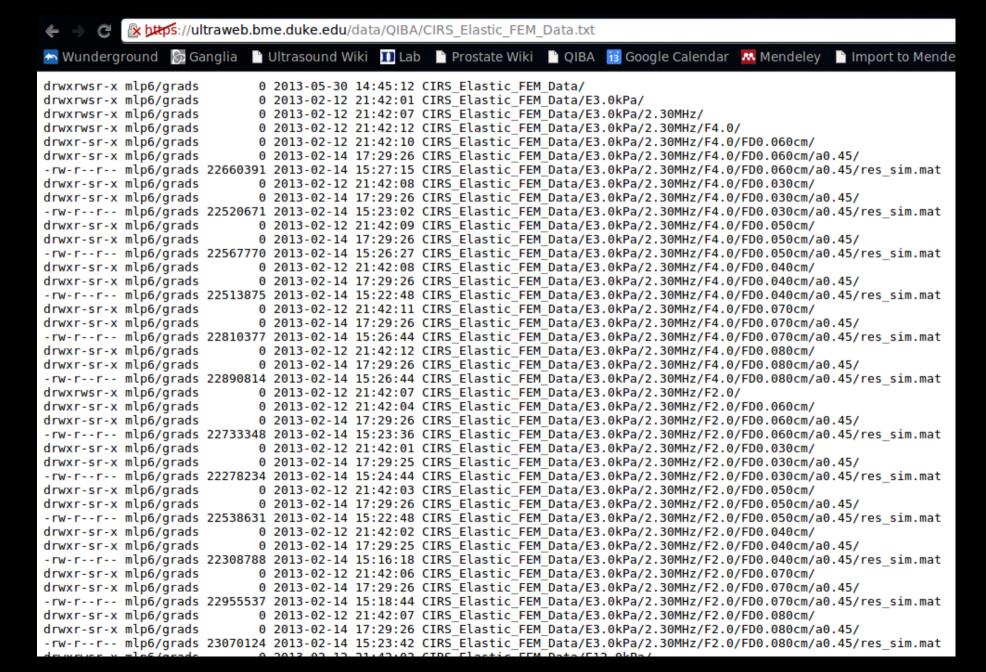
Username: qiba

Password: XXXXXXX





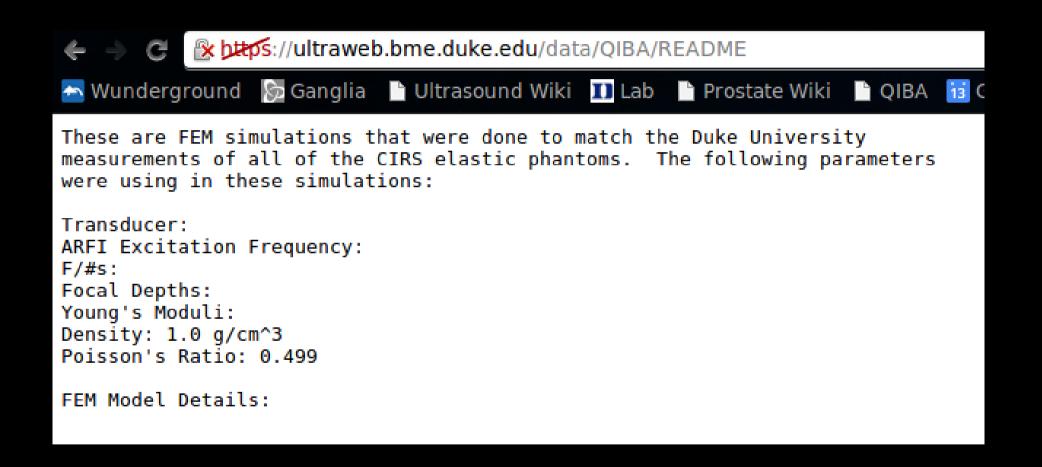
### Data Archive Files







## FEM Model Parameters (README)







# Example Data File (res\_sim.mat)

