Bach Bb Trumpet Dn-Up-Up 4LI Data: Re\{Pin\} & Re\{Pout\} vs. f
UIUC Physics 199POM/498POM 10/27/07

Frequency, f (Hz)

Re(P) (Pa)

X-Axis

Corr Re(Pin) (Pa)  10xCorr Re(Pout) (Pa)
Bach Bb Trumpet Dn-Up-Up 4LI Data: $|P_{in}|$ & $|P_{out}|$ vs. $f$

UIUC Physics 199POM/498POM 10/27/07

![Graph showing the frequency response of a Bach Bb Trumpet Dn-Up-Up 4LI, with plots of $|P_{in}|$ and $10x|P_{out}|$ against frequency. The graph includes peaks and valleys typical of resonant behavior at certain frequencies.](graph.png)
Bach Bb Trumpet Dn-Up-Up 4LI Data: Phase\{Pin\} & Phase\{Pout\} vs. Log f
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Graph showing Phase\{P\} (Degrees) vs. Frequency, f (Hz) with log scale for frequency.

Graph labels and lines:
- X-Axis: Frequency, f (Hz)
- Y-Axis: Phase\{P\} (Degrees)

Legend:
- X-Axis
- Corr Phase\{Pin\}
- Corr Phase\{Pout\}
Bach Bb Trumpet Dn-Up-Up 4LI Data: Pin & Pout Complex Plane
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Bach Bb Trumpet Dn-Up-Up 4LI Data: Re\{Uin\} & Re\{Uout\} vs. f
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![Graph showing Re\{U\} (mm/s) vs. Frequency, f (Hz)](image-url)
Bach Bb Trumpet Dn-Up-Up 4LI Data: |U_in| & |U_out| vs. f
UIUC Physics 199POM/498POM 10/27/07

Frequency, f (Hz)

| |U| (mm/s)
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Corr</td>
<td>U_in</td>
</tr>
<tr>
<td>Corr</td>
<td>U_out</td>
</tr>
</tbody>
</table>

Graph showing the variation of |U_in| and |U_out| with frequency f (Hz).
Bach Bb Trumpet Dn-Up-Up 4LI Data: Phase{Uin} & Phase{Uout} vs. f
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Bach Bb Trumpet Dn-Up-Up 4LI Data: Phase{Uin} & Phase{Uout} vs. Log f
UIUC Physics 199POM/498POM 10/27/07

Frequency, f (Hz)

Phase{U} (Degrees)

X-Axis

Corr Phase{Uin}

Corr Phase{Uout}
Bach Bb Trumpet Dn-Up-Up 4LI Data: Uin & Uout Complex Plane
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Bach Bb Trumpet Dn-Up-Up 4LI Data: Re\{Zin\} & Re\{Zout\} vs. f
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Bach Bb Trumpet Dn-Up-Up 4LI Data: Im\{Zin\}, Im\{Zout\} vs. f
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![Graph showing Im\{Z\} vs. Frequency, f (Hz) with Corr Im(Zin) and 100xCorr Im(Zout)]
Bach Bb Trumpet Dn-Up-Up 4LI Data: |Zin| & |Zout| vs. f
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Corr |Zin| (Ohms)
100xCorr |Zout| (Ohms)
Bach Bb Trumpet Dn-Up-Up 4LI Data: $|Z_{\text{in}}|$ & $|Z_{\text{out}}|$ vs. $f$

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c.f. w/ $Z_{\text{free-field, air}} \sim 420$ Ohms
Bach Bb Trumpet Dn-Up-Up 4LI Data: Re\{lin\} & Re\{lout\} vs. f
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Frequency, f (Hz)

Re\{l\} (nW/m²)

X-Axis

Corr Re\{<lin>\} (nW/m²) 10xCorr Re\{<lout>\} (nW/m²)
Bach Bb Trumpet Dn-Up-Up 4LI Data: Im{lin} & Im{lout} vs. f
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-20000 -15000 -10000 -5000 0 5000 10000

Frequency, f (Hz)

Im{I} (nW/m2)

X-Axis
Corr Im(<lin>) (nW/m2)
10xCorr Im(<lout>) (nW/m2)
Bach Bb Trumpet Dn-Up-Up 4LI Data: Phase{Iin} & Phase{Iout} vs. f
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Phase(I) (Degrees)

Frequency, f (Hz)
Bach Bb Trumpet Dn-Up-Up 4LI Data: Phase\{lin\} & Phase\{lout\} vs. Log f
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Frequency, f (Hz)

Phase(f) (Degrees)

X-Axis  Corr Phase\{lin\}  Corr Phase\{lout\}
Bach Bb Trumpet Dn-Up-Up 4LI Data: PF\{lin\} & PF\{lout\} vs. f
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Frequency, f (Hz)
P(F(t) (%)

X-Axis Corr PF(lin) Corr PF(lout)