

BBO (Broadband Observe) Probe

- Purchased Used for \$6,200; Installed Dec. 2009
- Excellent ^{13}C Sensitivity
- Inner (Most Sensitive) Coil is Tunable from 50 to 202 MHz (^{15}N to ^{31}P): the “X” Nucleus
- Outer Coil is Tuned to ^1H
- Single Axis Gradient (z-axis) Permits Auto Shimming
- Sliders (Up and Down) Are Used to Manually Tune and Match the Inner (X Nucleus) Coil
 - Tune Sliders are (Left to Right): Hundreds, Tens and Ones (Click on Integer) and Tenths (Free Sliding)
 - Match Sliders are Left and Behind the Tune Sliders. They are (Left to Right): Tens, Ones (Click on Integer) and Tenths (Free Sliding)
- Tuning Tool (Rod with Hook) Fits into Hole at Bottom of Each Slider
- Tuning Card (Hanging from Probe) Has Ballpark Tune and Match Values for Many Nuclei
- Because the X Coil (Usually ^{13}C) is on the Inside, You Only Need to Tune the X Nucleus (Sliders)