

Imaging lens assembly NOTES and CORRECTIONS

The detector is now mounted horizontally, along the molecular beam axis (unlike in the HRTOF assembly diagram, where it is shown mounted vertically, on top of the center cube).

The lens where the molecular beam first goes through acts as another defining slit. It has a through hole of 0.080" diameter at center line. This is followed by the extractor lens which has a through aperture of 0.550 diameter. Then the lens at the start of the flight tube, which also has an aperture of 0.550 diameter. We added some yellow sticky notes to the assembly diagram labeled "Imaging.lensassembly.pdf" that the machinist in Central Shop drew to show what parts go where.

Note that when you are aligning the laser beams through the assembly, you replace the repeller ion optic with the one called focus_plate. The alignment tool keys into that.

The spacer2 design has a few errors in it. It should show a male thread on the right side.