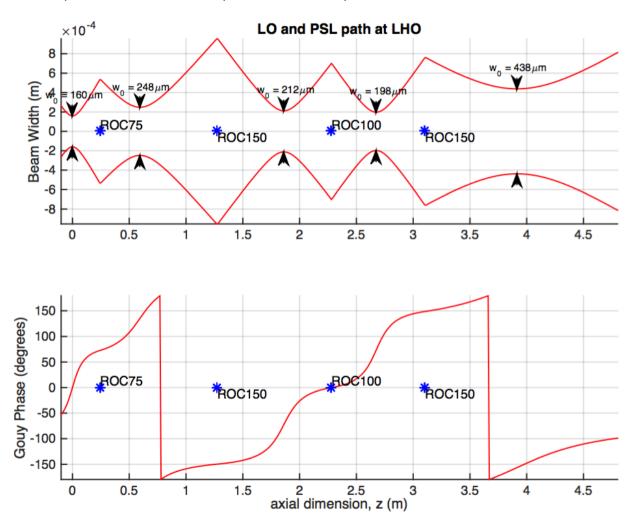
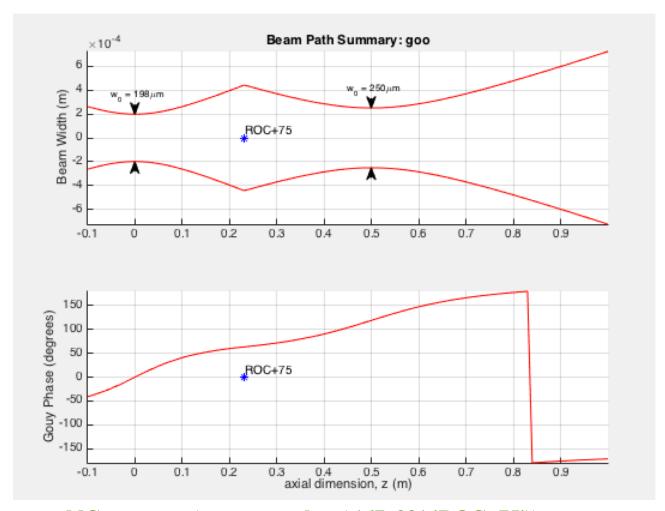
Original mode-matching from IR pump laser (Mephisto) on ISCT6 (waist 160um) to the PSL fibre (waist 438 um).

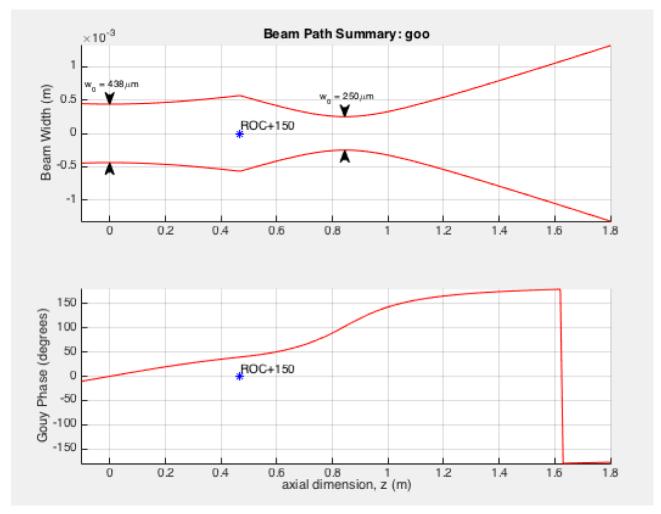


We use the 198 um waist in the above solution to create a new 250 um waist (see below) before the beat note detector (newfocus 1611).



goo.addComponent(component.lens(.167,.231,'ROC+75'));

We then take the path from the PSL fibre collimator (waist 438 um) and create a 250 um waist in the same position in front of the detector by implementing a ROC150 lens, see below.



goo.addComponent(component.lens(.333,.468,'ROC+150'));

In practice the existing ROC150 lens is moved toward the PSL fibre and the PSL fibre is moved back (closer to the end of the table) to position the waist at the same position (between BS9 and the detector) as the beam from the Mephisto laser, see below.

Note a focusing lens is also added just before the detector (not shown).

