

Sideband Frequencies for Arm Length Stabilization

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ALS Sideband Frequencies

- We have to decide by Sept 19, 2016 for ALS table-top experiment at University of Toyama
- ALS sidebands shouldn't be multiples or simple integer ratio of IMC FSR (5.62698725 MHz), since we use f_1 (FSR*3), f_2 (FSR*8), f_3 (FSR*10), $2*f_1$ (FSR*6), $2*f_2$ (FSR*16), f_3-f_1 (FSR*7), f_3-f_2 (FSR*2) for IR locking
- ALS sidebands shouldn't be multiples or simple integer ratio of IMC sideband frequency (13.78 MHz)
- ALS sidebands shouldn't degenerate with higher order modes resonances
- How about ~~32 MHz for ALSX and 33 MHz for ALSY?~~

→ **Actually installed as**

33 MHz for ALSX and 32 MHz for ALSY

HOM Structure

