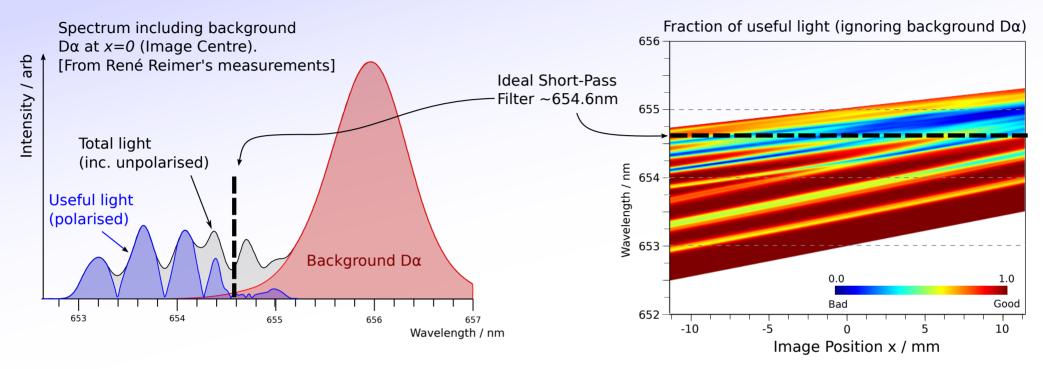
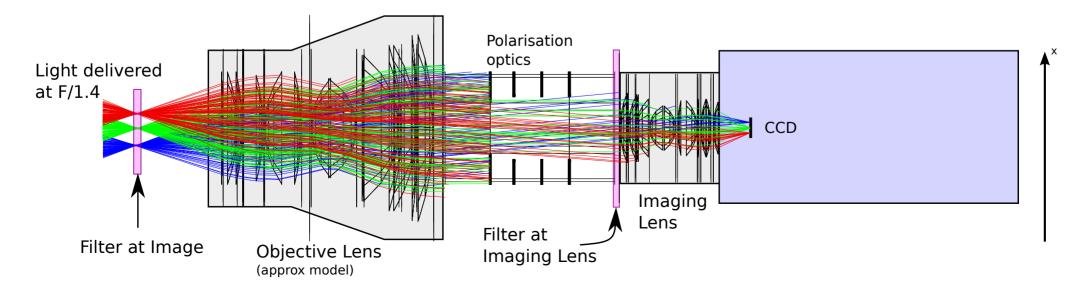


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IMSE Design - Spectrum and Filter



Filter can be placed at intermediate image plane (where fibres were), or on the front of the imaging lens (in the parallel rays):





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IMSE Design - Throughput and filter shift.

For the 135mm:50mm standard case, light throughput is only \sim 0.4% of MSE emission to mirror. (\sim 6% of light delivered to intermediate image).



Some proportion of the light goes through the filter at a very steep angle and shifts the filter short-pass into the useful spectrum. The filter functions for different image positions calculated by the ray tracer are shown below. These assume a filter effective index of n = 2.0 and an ideal sharp 655nm short-pass filter at normal incidence:

