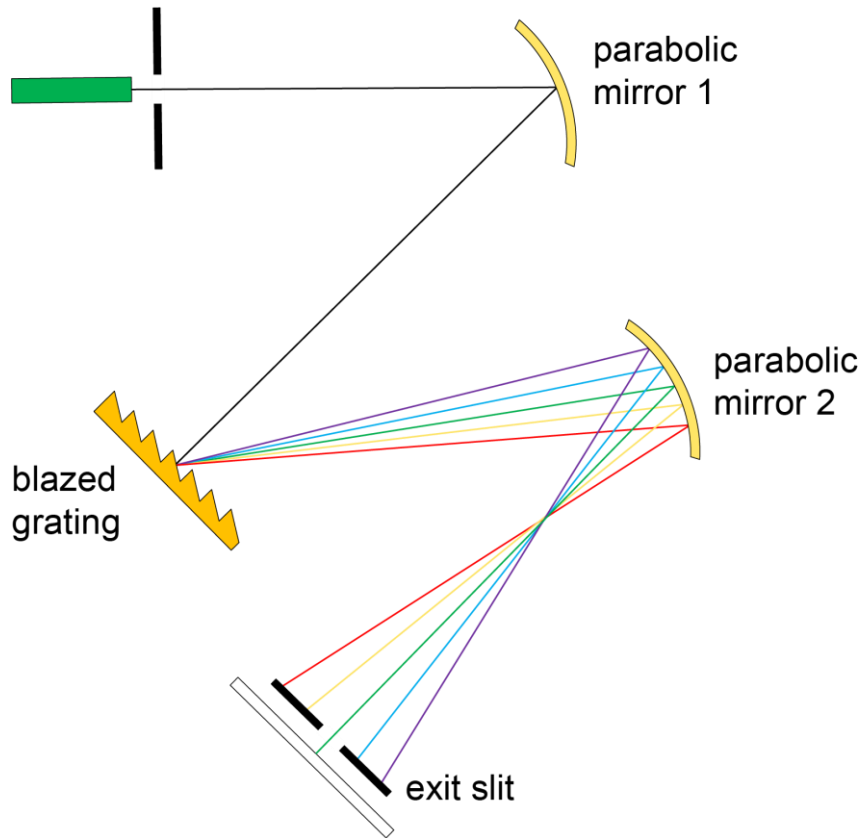


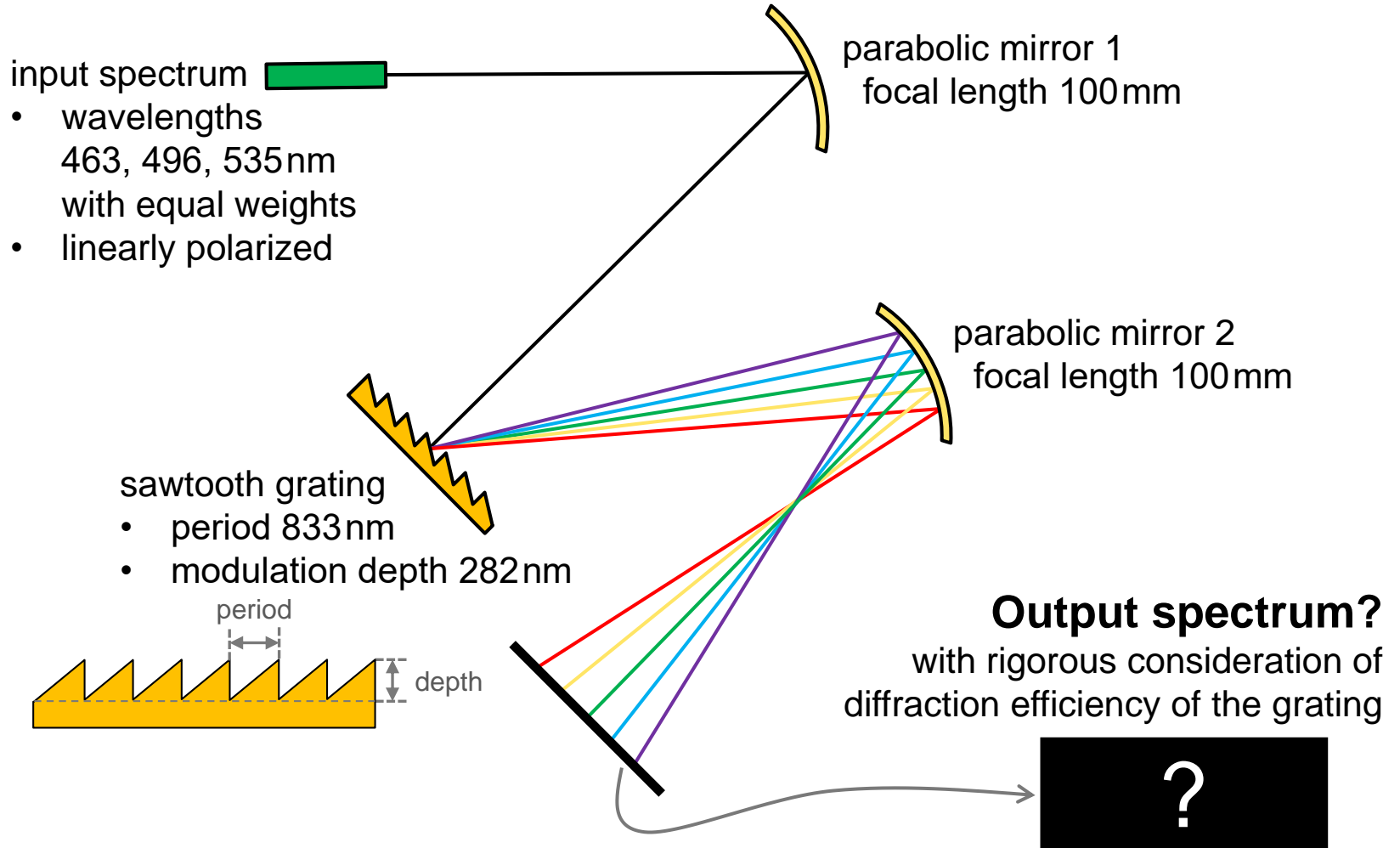
Diffraction Efficiency Analysis for a Czerny-Turner Setup

Abstract

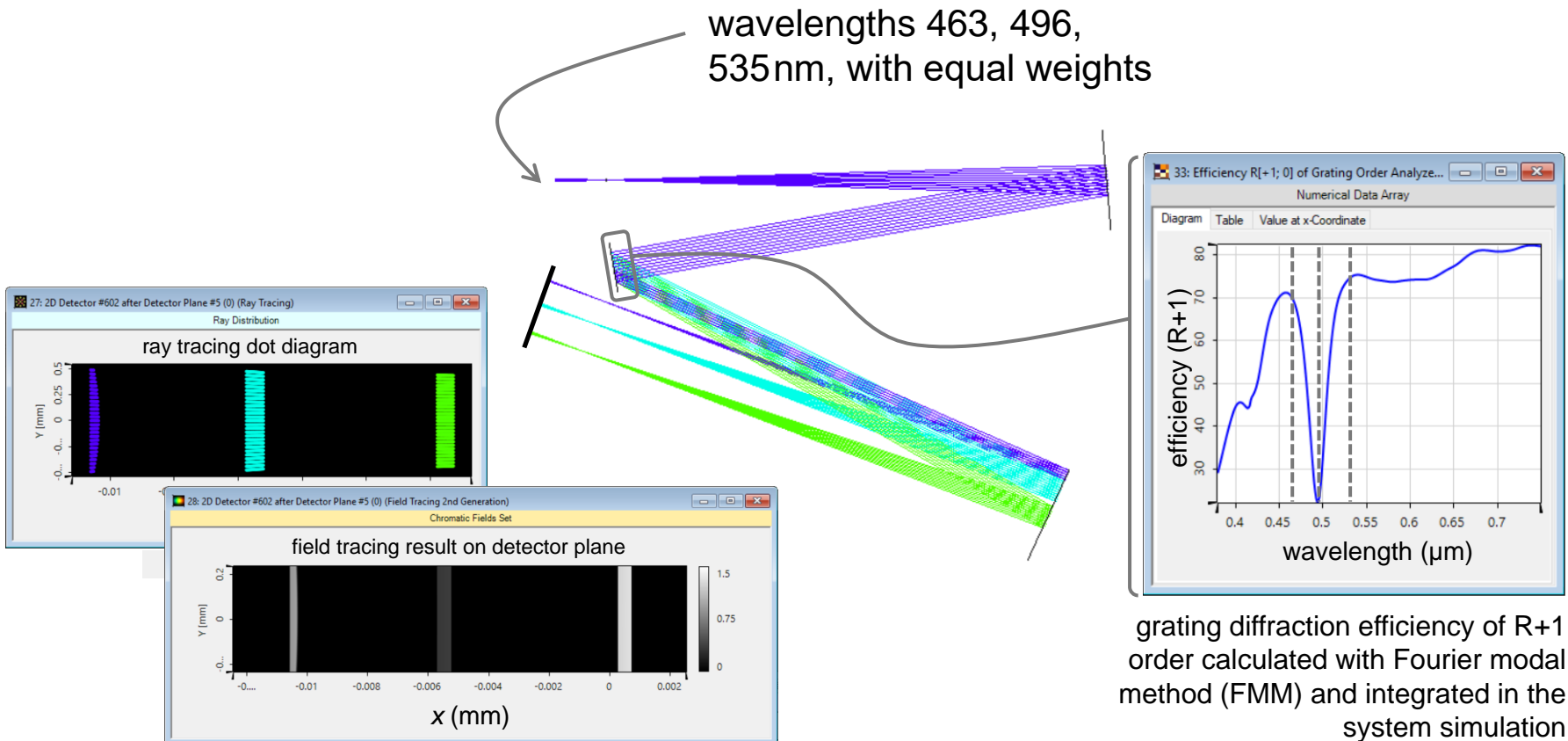


Czerny-Turner setup is widely used to analysis the spectral information of light sources. Typically, a parabolic mirror is used to collimated the source first, and then a diffraction grating will spatially separate the colors spatially. A simulation of the complete setup, including real reflective mirrors and diffractive gratings is presented. Especially, the diffraction efficiency of the grating calculated with Fourier modal method (FMM), and the corresponding result on the detector plane is shown.

Modeling Task



Results



Simulation of full system including rigorous grating simulation takes only 3 seconds.

Document Information

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