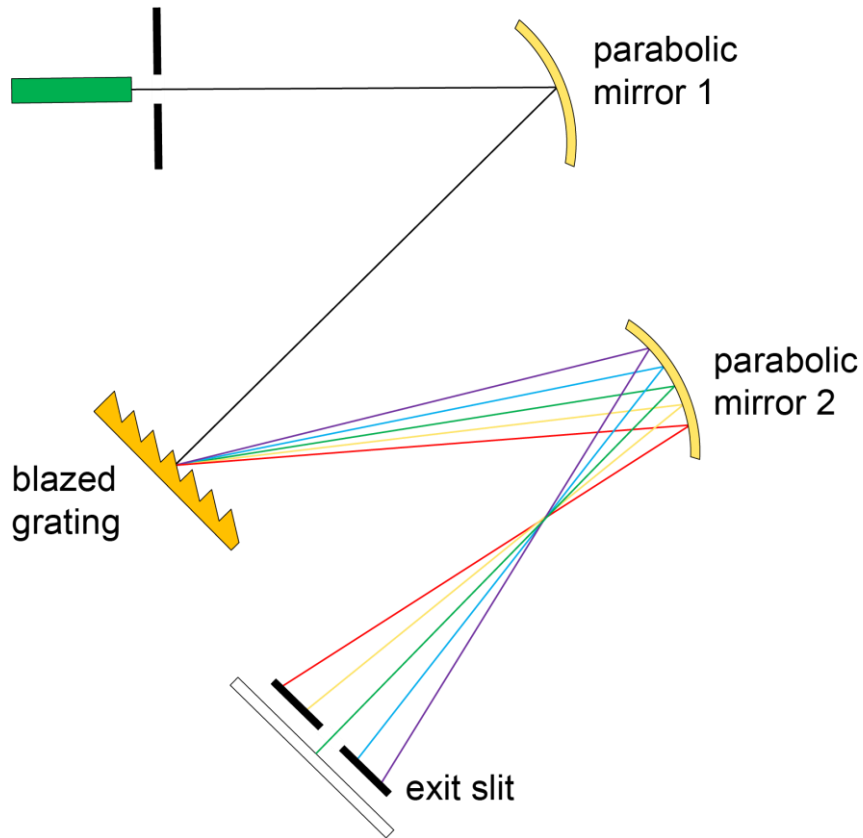


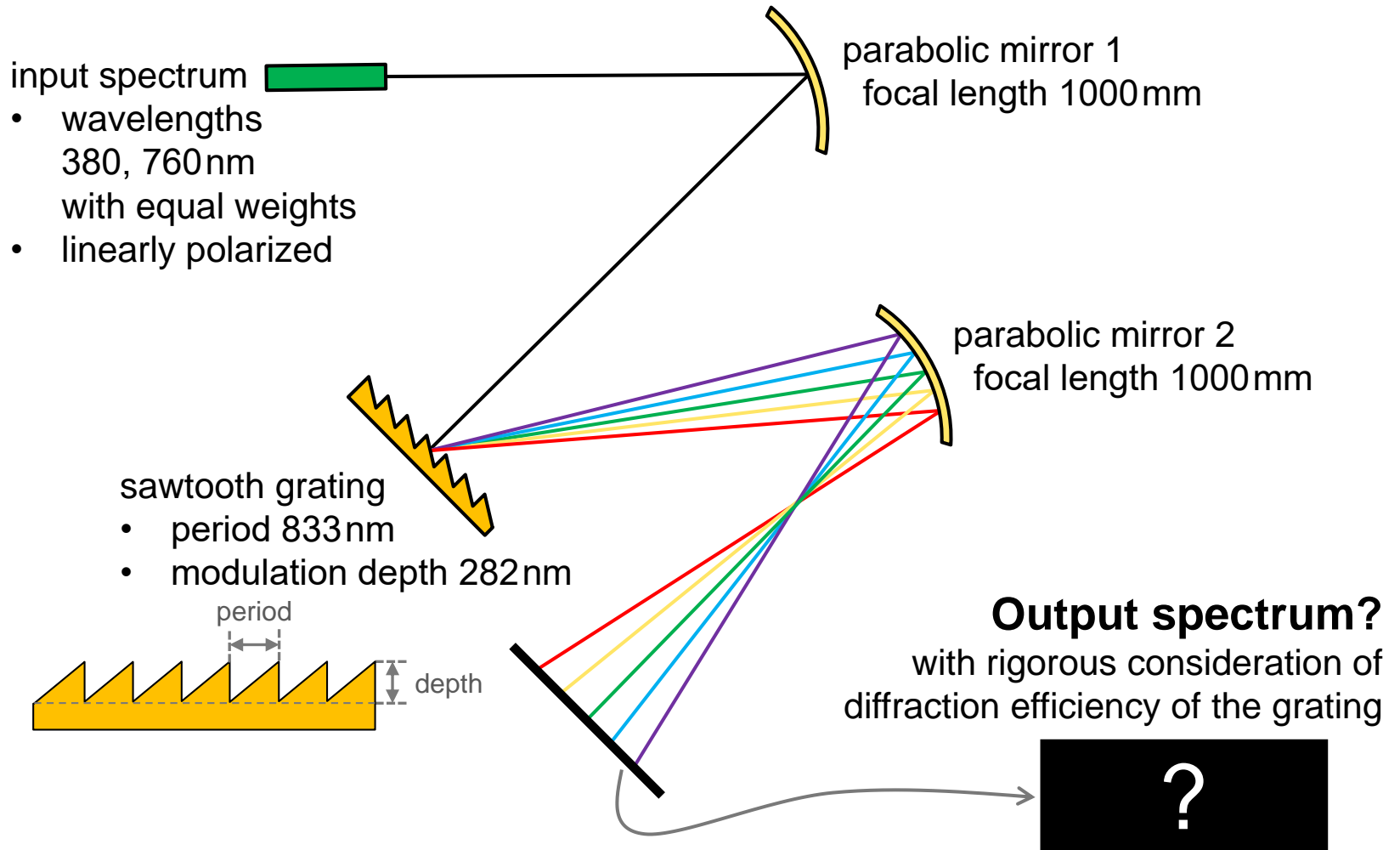
Diffraction Order Overlap in a Czerny-Turner Setup

Abstract

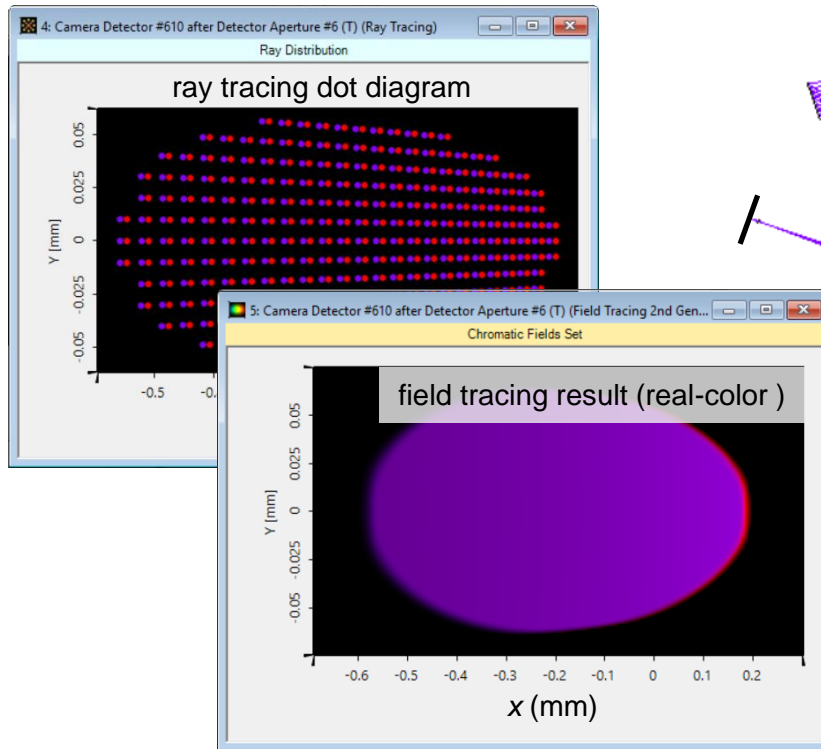


Czerny-Turner setup is widely used to analysis the spectral information of light sources. Typically, a parabolic mirror is used to collimated the source first, and then a diffraction grating will spatially separate the colors spatially. A simulation of the complete setup, including real reflective mirrors and diffractive gratings is presented. Particularly, the higher diffraction orders and possible overlapping between different orders are investigated.

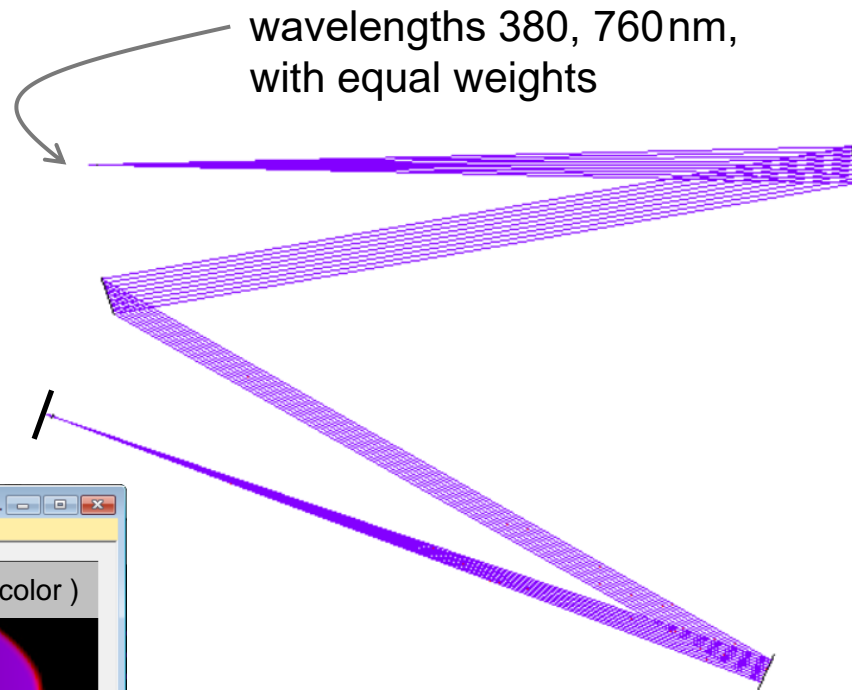
Modeling Task



Results



wavelengths 380, 760nm,
with equal weights



Overlapping between 1st diffraction
order of 760nm and 2nd diffraction
order of 380nm is shown.

Document Information

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category	Application Use Case
