



HIGH DISPERSION 467 NM GRISM PROPOSAL AND QUOTE

RFP # WP-14126

November 23, 2021

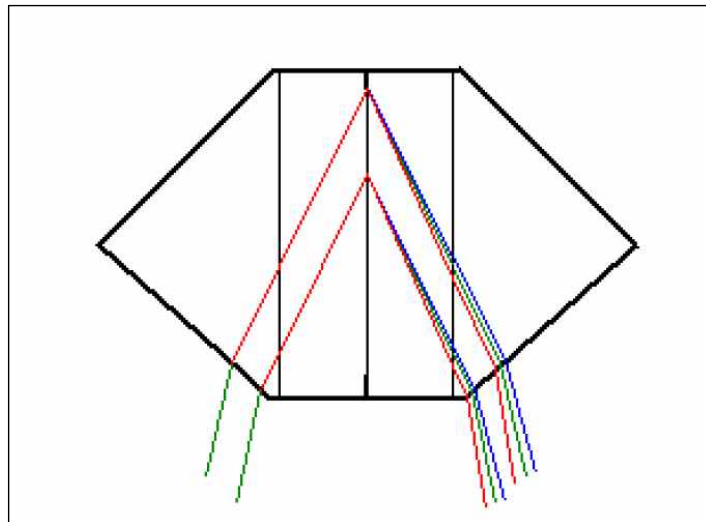
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The spatial frequency of 5422 l/mm required for the grating in this grism is the highest that Wasatch Photonics has attempted to date. Anticipating unique challenges in producing this grating, WP proposes making a much smaller grism using off the shelf prisms to prove the feasibility before engaging in making the full size grism:

- a. Grism fabrication process and tooling design (mostly completed during proposal writing stage).
- b. Build and purchase tooling to make the 5422 l/mm grating. Tooling and equipment includes: ~350 nm laser for measuring the spatial frequency, 467 nm laser to measure 1st order diffraction efficiency. Build fixtures for exposing gratings, measuring spatial frequency, determining the spectral tuning of the grating, and orienting edge of grating to the grating lines. We estimate that the spatial frequency will be within +/- 20 l/mm of 5422 l/mm. Leadtimes for the lasers are 3 to 5 weeks.
- c. Expose and tune 25 mm 5422 l/mm to 467 nm.



- e. Characterize spatial frequency and diffraction efficiency and compile into report.