
NIRSPEC

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NIRSPEC Cryomechanics Design Note 07.00 f-converter

Introduction

The f-converter consists of three mirrors arranged as what is known as a k-mirror configuration. We will have the mirrors made by diamond machining, so that we can have an all-aluminum construction for this component of the system.

What next?

The optical design needs to be frozen so that we can proceed to bid packages for the optical manufacture. We also have to decide just how much of the assembly to buy and what parts to do ourselves. We could simply have the mirrors made, then align and install them ourselves, but a better approach is to have the optical vendor align the three mirrors and deliver them as a finished and tested unit. That would leave us with the task of aligning this unit to the rest of the system. We need to solidify our vague ideas about mounting schemes.