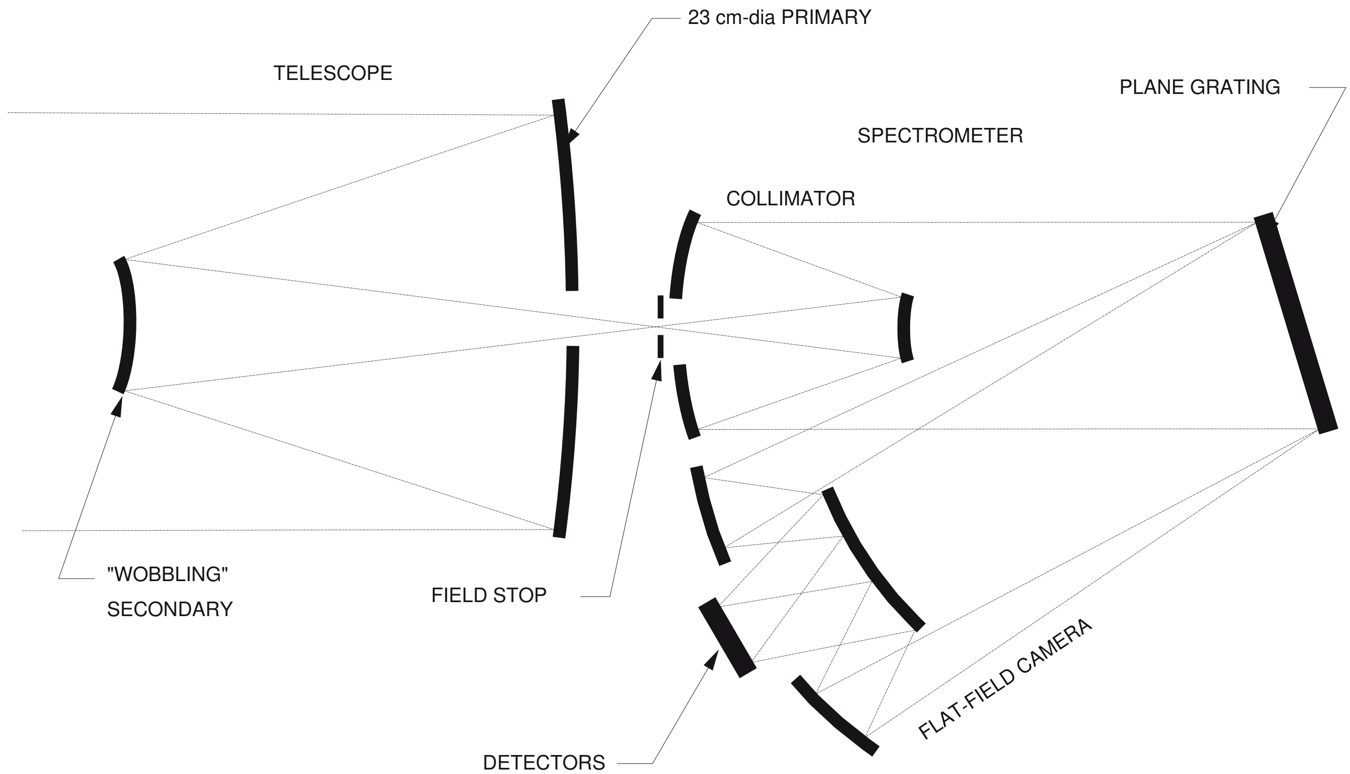


**Fig. 3. Schematic of the NIMS Optical Design.**

**A telescope of 228 mm aperture forms an image at the entrance slit of the spectrometer. The telescope secondary mirror pivots around an axis which is in the plane of the paper, giving a 20-position spatial scan. The spectrometer employs a dual-blazed diffraction grating. The dispersed radiation is detected by 17 detectors in the camera focal plane, each detector located for a particular spectral region. Rotation of the grating changes the wavelength striking each detector. A complete spectrum, at full spectral resolution, is accomplished with 24 grating positions.**