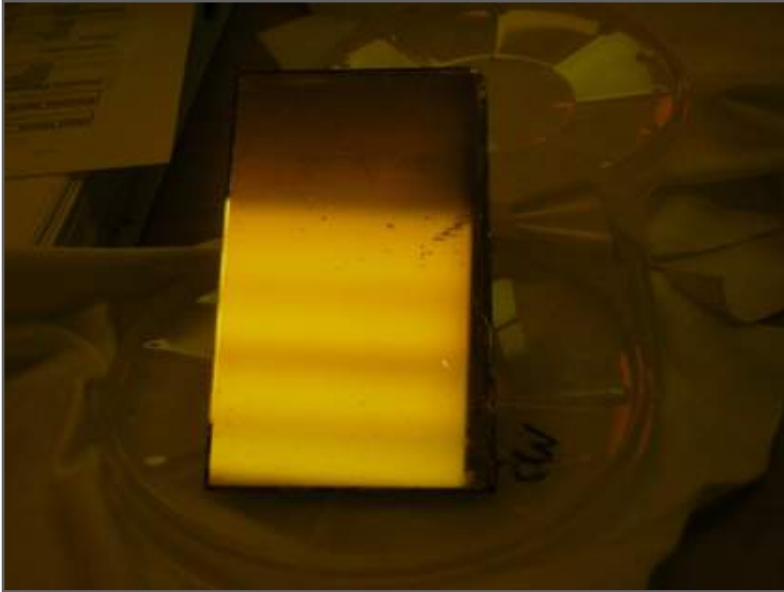


# Silicon Immersion Gratings

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Silicon immersion grating with Au coating for insertion in a high resolution IR spectrometer developed at the University of Florida.

High resolution infrared silicon immersion grating spectrometer with  $R=55,000$ ,  $1.2-2.4 \mu\text{m}$  is being developed at the University of Florida. This system can be used to search for habitable Earth-like planets around low mass red stars and to detect and characterize giant planets around young stars.

Custom designed silicon immersion grating with Au coating fabricated at the Penn State NNIN site.

Ge et al. 2006, Proc. SPIE, 6269, 45.

NNIN is a vehicle for developing cutting-edge critical astronomical instrument components for future ground-and space-based astronomical observations.

Penn State Site

