

AGA0414

Imagers

Prof. Alessandro Ederoclite

Types of Instruments

IMAGERS

SPECTROGRAPHS

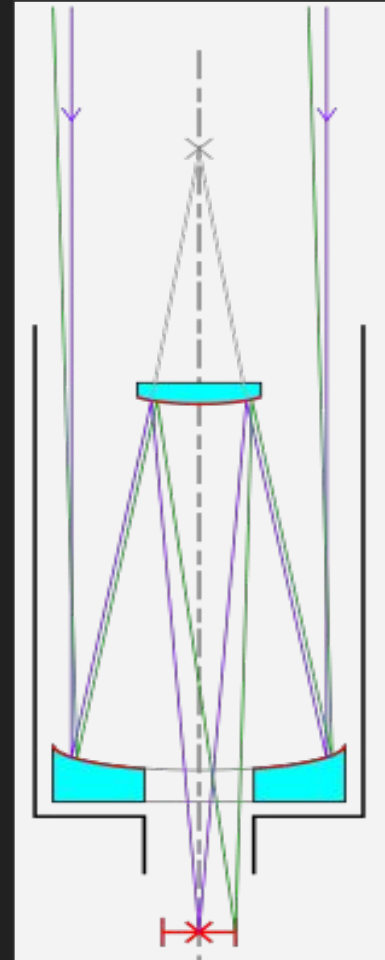
POLARIMETERS

(from AGA5921)

What happens if I put something in front of a telescope?

If I put something on the primary mirror?

If I put something in front of the focal plane?

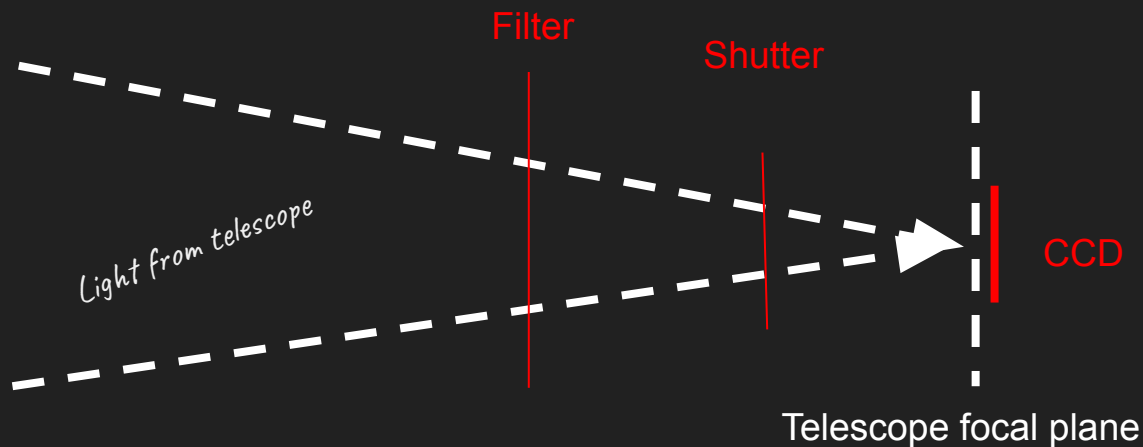


<http://www.strw.leidenuniv.nl/dai/top/system/pupils-images/txt.html>

Direct Imagers

The simplest optical system you can imagine:

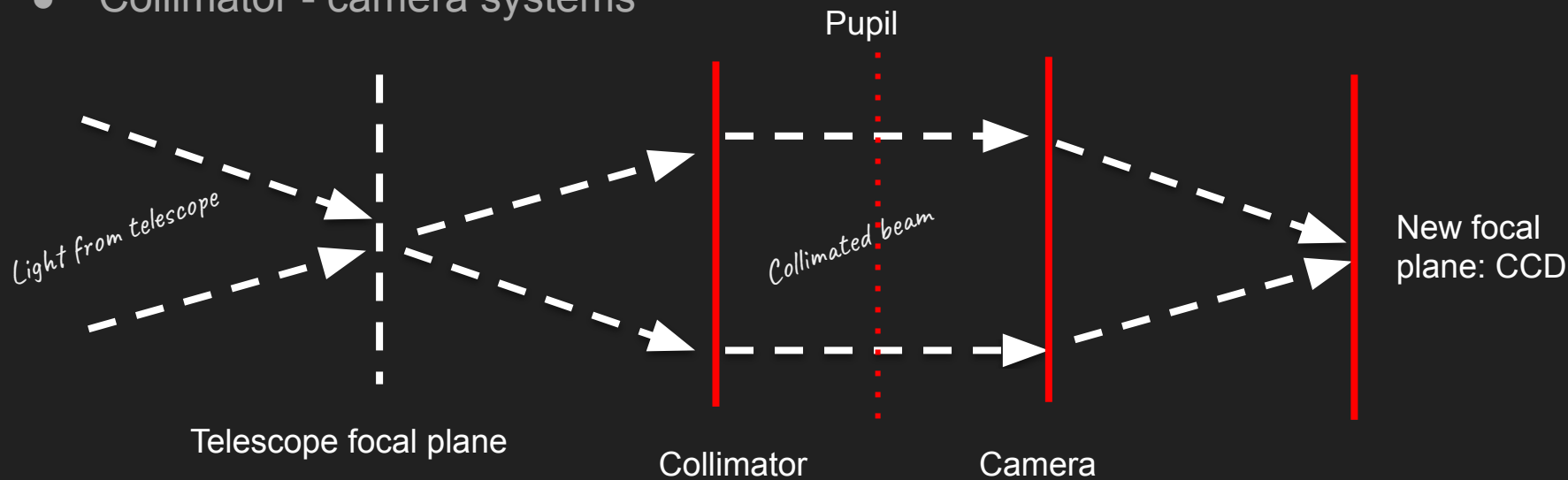
- A filter (possibly on a filter wheel)
- A shutter
- A detector (a CCD)



Focal Reducers

Change focal length -> change plate scale

- Beam accelerators
- Collimator - camera systems

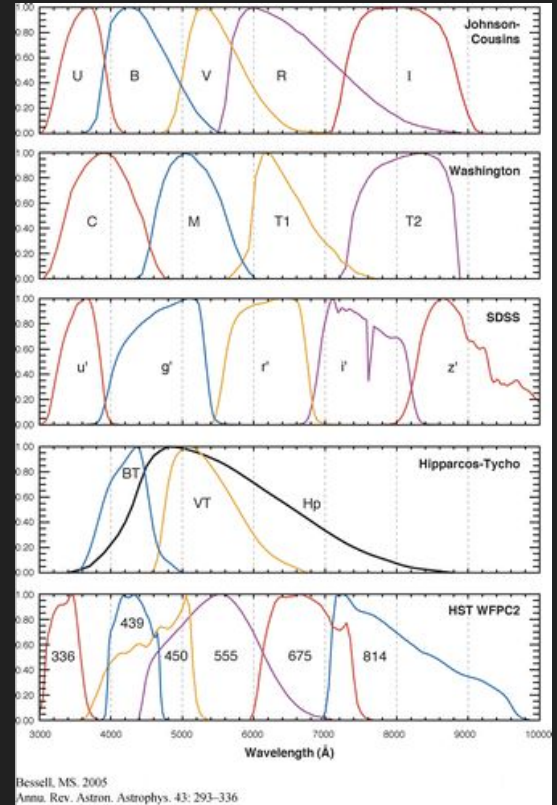


Filters

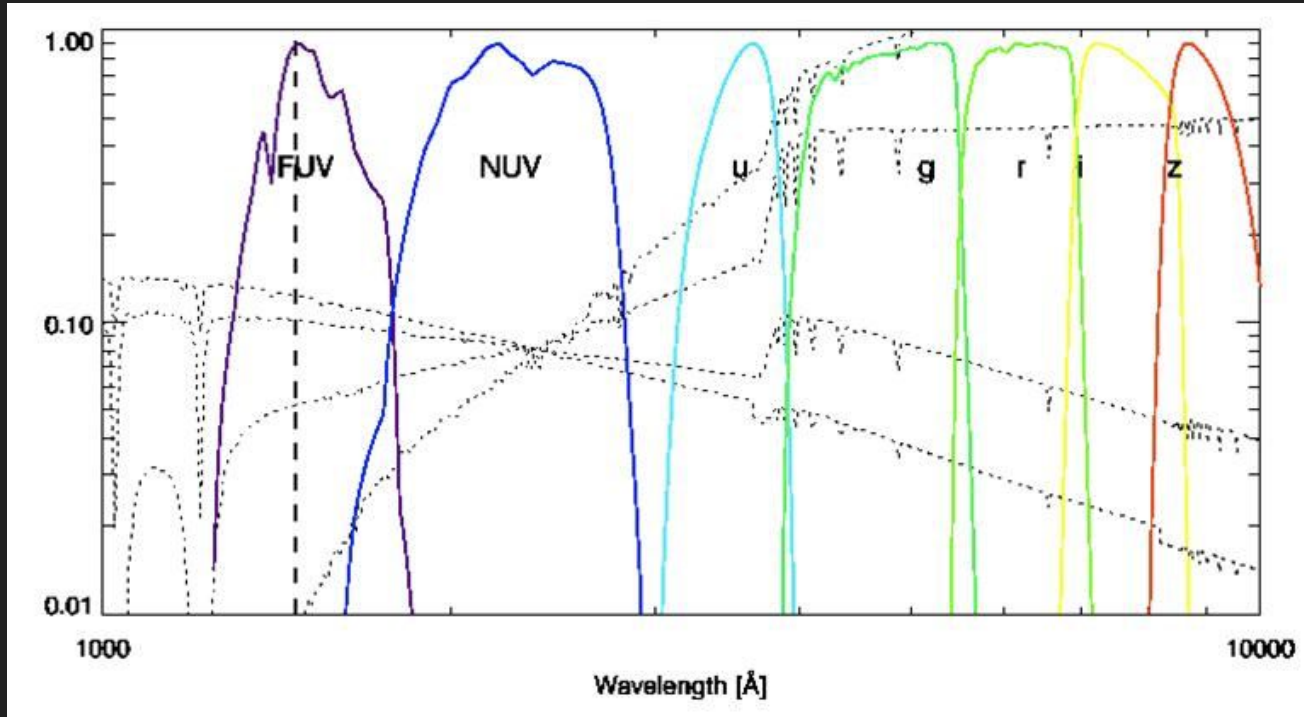
What is a filter

Select an interval of
wavelengths/frequencies/energies.

<https://www.astro.umd.edu/~ssm/ASTR620/mags.html>



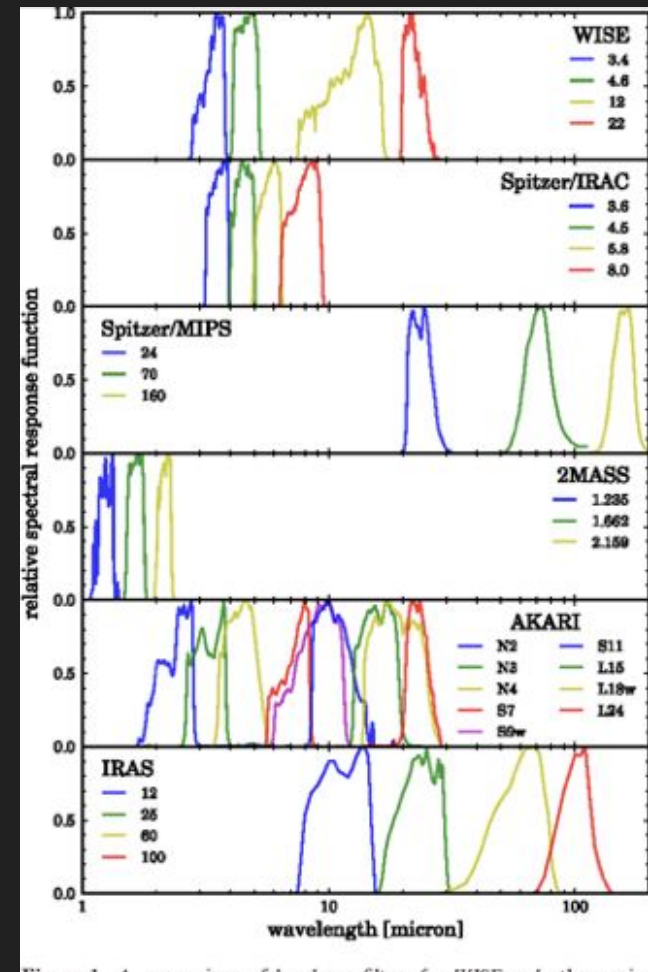
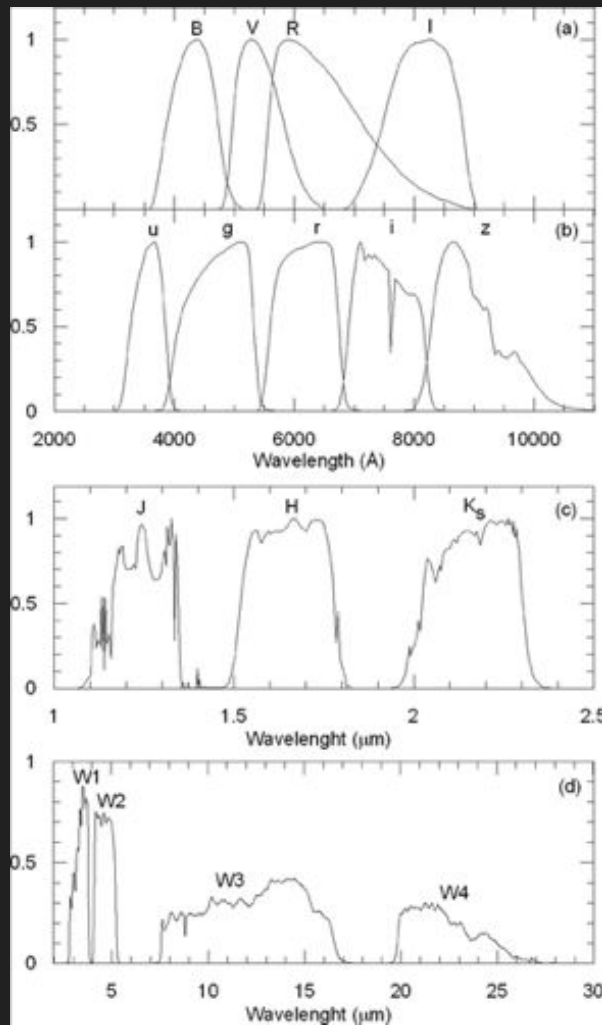
UV filters



http://www.galex.caltech.edu/DATA/gr1_docs/GR1_Observers_guide_v1.htm

Infrared

<- Bilir et al. (2011)





Filter Profile Service

A repository of Filter information for the VO



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2MASS	AAO	AKARI	Astrosat	BOK	CAHA	CFHT	COBE	CTIO	DENIS	Euclid	GAIA	GALEX	GCPD	Gemini
Generic	Geneva	GTC	Herschel	Hipparcos	HST	IAC80	ING	INT	IRAS	ISO	IUE	JWST	Keck	Kepler
KPNO	LasCumbres	LaSilla	LBT	LCO	LICK	Liverpool	LSST	McD	Misc	MKO	MMT	MSX	NIRT	NOAO
NOT	OAF	OAJ	OSN	P200	Palomar	PAN-STARRS	Paranal	SAO	Scorpio	SkyMapper	SLOAN	SOFIA	Special	Spitzer
STELLA	Subaru	Swift	TCS	TD1	TESS	TJO	TNG	TNO	TYCHO	UKIRT	VATT	WFIRST	WHT	WISE
WIYN														

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This research has made use of the SVO Filter Profile Service (<http://svo2.cab.inta-csic.es/theory/fps/>) supported from the Spanish MINECO through grant AyA2014-55216

and we would appreciate if you could include the following references in your publication:

- The SVO Filter Profile Service. Rodrigo, C., Solano, E., Bayo, A. <http://ivoa.net/documents/Notes/SVOFPS/index.html>
- The Filter Profile Service Access Protocol. Rodrigo, C., Solano, E. <http://ivoa.net/documents/Notes/SVOFPSDAL/index.html>