

Role of FOCAS

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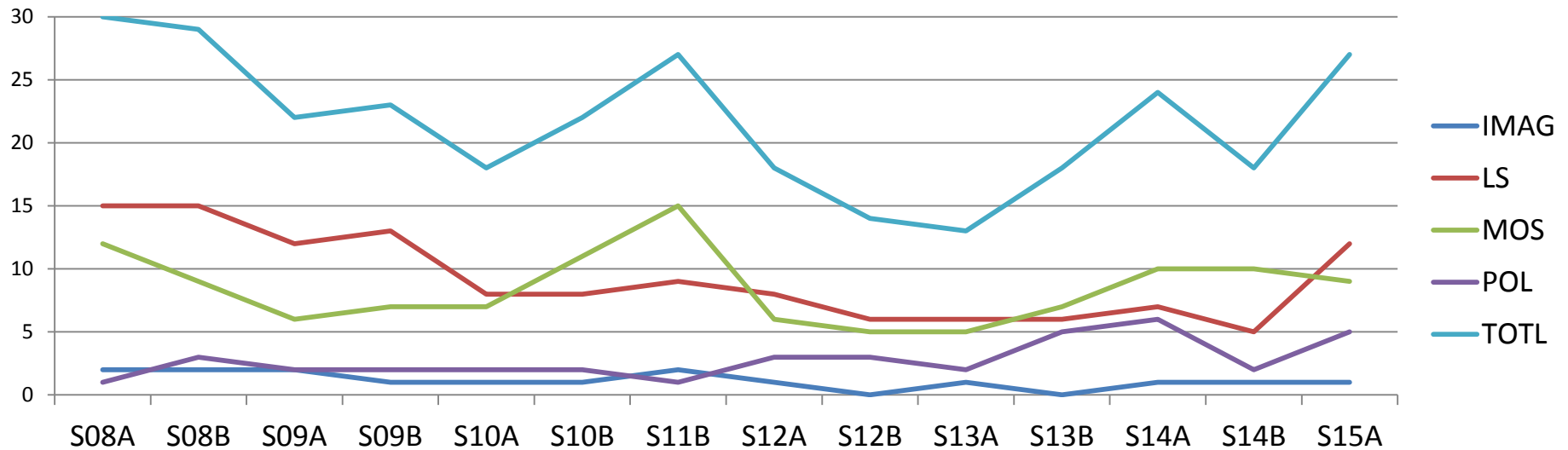
12/9/2014

FOCAS

- not unique
- better scores in stability/work-load
(but there is a long history of repair/improvement ...)
- decreasing demand?
 - high demand
 - low success rate (fraction of accepted proposals)
 - unavoidable for a utility instrument?

FOCAS submitted proposals

	S08A	S08B	S09A	S09B	S10A	S10B	S11B	S12A	S12B	S13A	S13B	S14A	S14B	S15A
IMAG	2	2	2	1	1	1	2	1	0	1	0	1	1	1
LS	15	15	12	13	8	8	9	8	6	6	6	7	5	12
MOS	12	9	6	7	7	11	15	6	5	5	7	10	10	9
POL	1	3	2	2	2	2	1	3	3	2	5	6	2	5
TOTL	30	29	22	23	18	22	27	18	14	13	18	24	18	27



FOCAS submitted proposals

- trend in recent proposals
 - decrease in true multi-object spectroscopy
 - single primary target in the field
 - reference stars, secondary targets, secure alignment for a faint target
 - increase in polarimetry?
 - S13B to S15A
 - follow-up spectroscopy of rare objects (SN/QSO) found in HSC data (S14B, S15A)

Role of FOCAS

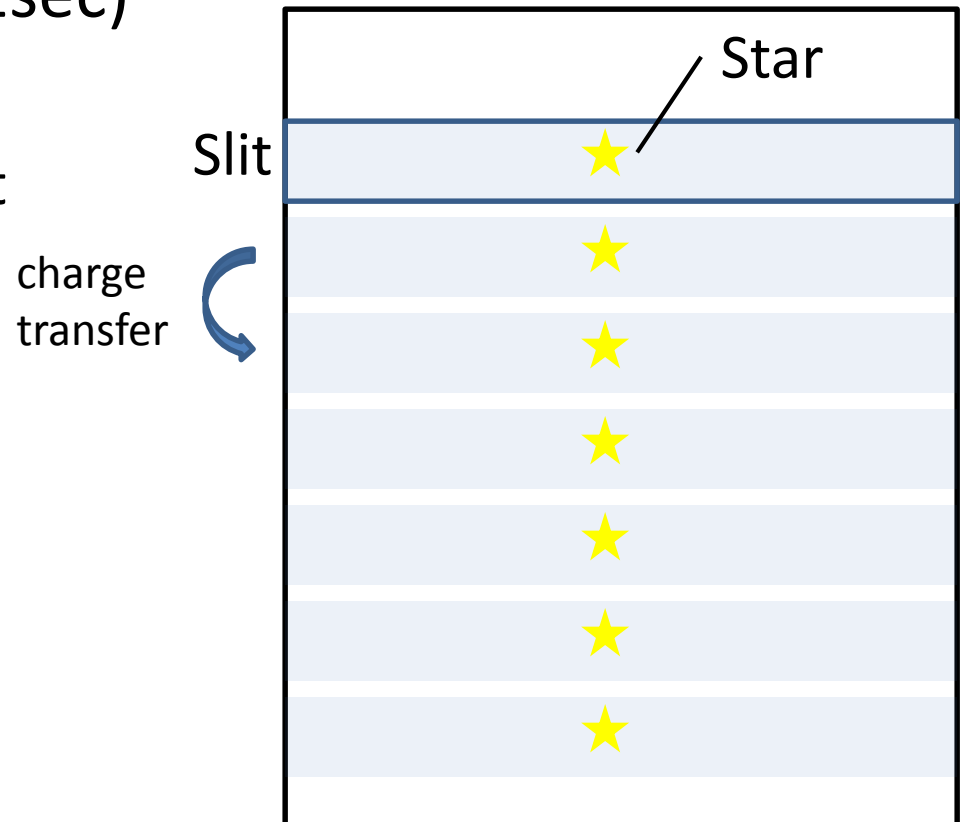
- "versatile optical instrument with multi-object capability"
- before
 - multi-object spectroscopy
 - follow-up spectroscopy of deep fields
 - SDF, SXDS, ...
- now
 - versatility/utility
 - variety of observing mode
 - follow-up/detailed-observation of interesting targets
 - deep spectroscopy, polarimetry, etc.
 - test of new observation technique

to reduce work-load

- usage of IRM2
 - still want to use ADC
 - need to modify Mitsubishi software
 - baffle for IRM2
- stop operation
 - and to see how it goes

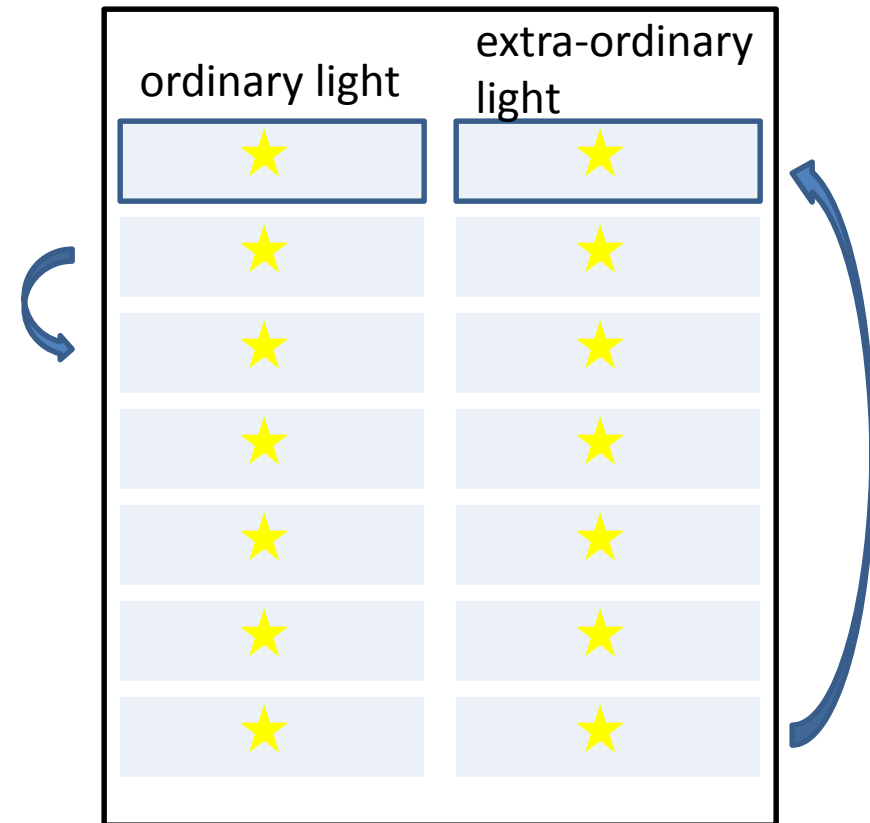
versatility/flexibility

- special observing mode
 - fast photometry (~1sec)
 - PI : Andrea Richichi
 - put a star on the slit
 - exposure
 - charge transfer
 - exposure
 - charge transfer
 - ...



versatility/flexibility

- special observing mode
 - on-chip folding
 - PI : Mikio Morii
 - phase resolved imaging-polarimetry of pulsars

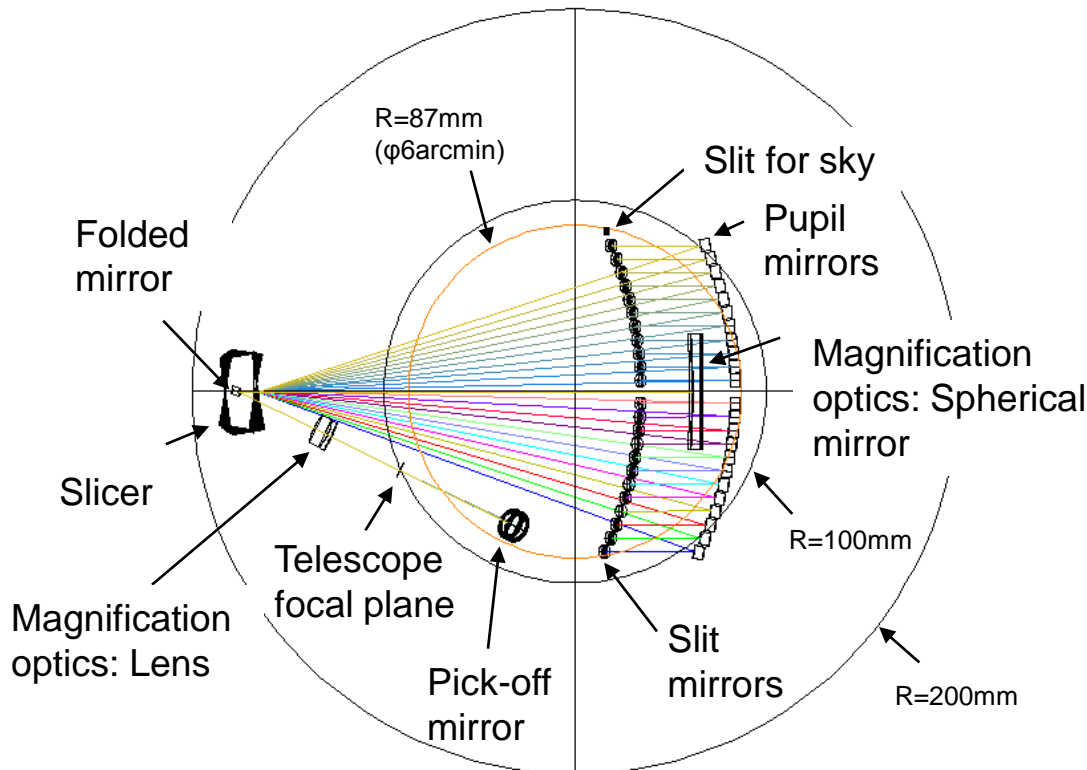


versatility/flexibility

- IFU for FOCAS

- PI : Ozaki (TMT Project Office)

- supported by grant-in-aid (FY2014-)



type	image slicer
FoV	$13''.5 \times 9''.2$
slit width	$0''.4$

versatility/flexibility

- IFU for FOCAS
 - fabrication of components
 - test and installation in 2015

