

DAG telescope site studies and infrastructure for possible international co-operations

SPIE.

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9910-99

Infrastructure and Facilities

Geological & Geophysical Studies

Road to the site asphalt
Road on site stabilized

Fiber cabling undergrounded 26 km

Continuous Power
Trans. - 2x630 kW
Gen. - 2x400 kW
UPS - 2x250 kW

Remote Observing from Campus

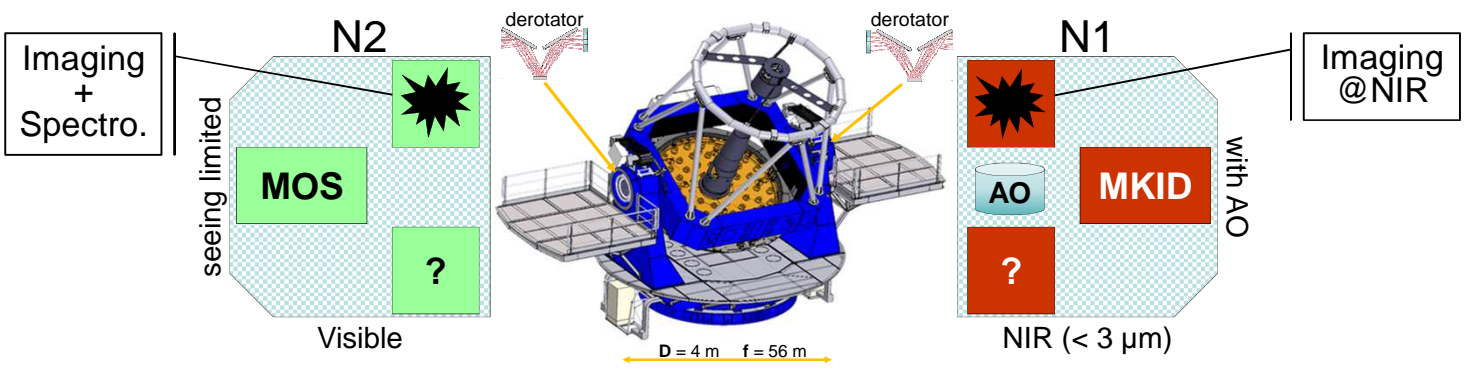
Mirror Coating Plant
2019-2021



Site Conditions

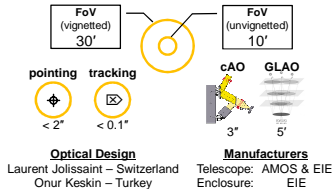
Clear Nights : clear	>250
Humidity : low and dry	2-10%
Prevailing Wind : stable	North-East
Wind Speed : calm	
Temperature : cold	-35 C (winter max)
Inversion Layer : low	~2600 m
Iced Thin Snow Cover : dust-free	<100 cm
Snow Season : consistent	Nov - Apr

Continuous monitoring of the site
 MASS/DIMM and SLODAR will be operational in 2017
 (collaborating with SAI and Durham Uni, respectively)



Other papers by DAG

- 9910- 113 : Site & Infrastructure by Cahit Yesilyaprak
- 9911- 28 : Project Management by Onur Keskin
- 9906- 132 : Optical Design by Laurent Jolissaint
- 9911- 106 : Building Design by Erkan Sahmali
- 9908- 207 : Focal Plane Instrumentation by Onur Keskin
- 9915- 101 : MKID by Tolga Guver



Why collaborate with DAG

- High optical performance @ 4 m class telescope
- High pointing and tracking accuracy coupled with AO
- Remote observing with high computing power
- Geographically fills longitude gap
- An important partner in between North & South hemisphere projects
- Potential spare site locations (with full infrastructure support) @ 3170 m
- Exceptional weather conditions on a mainland geology



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