

Proposal ID: 25A-K-

Application Form for Kyoto-U. Seimei Telescope Time (Page 1)

Obs mode: ☐ C (Classical) T (ToO) CT (Classical & ToO) / ☐ N: new C: cont. Date: Y____ M____ D____

1. Title: てすと

2. Principal Investigator: () Linked to Thesis Work:

3. Institution: Position:

4. Mailing Address:

Phone:

E-mail Address:

5. Co-Investigators

Family, First Name	Institution	Country	Position
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6. Past Observations (within the Last Three Years):

Year (A/B)	Principal Investigator	Allocated nights	Success Rate	Status / Publications
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7. List of Related Publications (Up to 5 Papers): (Authors, Title, Journal, Vol., First Page, Year)

- 1.
- 2.
- 3.
- 4.
- 5.

*8. Supervisor:

Institution / Position:

Phone:

E-mail Address:

*Required in the case that the principal investigator is a graduate student.

Application Form for Kyoto-U. Seimei Telescope Time (page 2)

9. Abstract:

10. Scientific Category:

1: Solar System 2: Stars 3: Star Formation 4: Exoplanets 5: ISM 6: Galactic 7: Extragalactic 8: Instrumentation 9: Education for undergrads 10: Other ()

11. Instrument(s).

1: KOOLS-IFU 2-a: TriCCS (imaging) 2-b: TriCCS (spectroscopy) 3: GAOES-RV
4: Others ()

12. Do you use TriCCS with a frame rate of 10 fps or higher?:

Y

Y: Yes N: No

If yes, please enter the comments from the TriCCS team in the textbox in sec.19. Technical Description.

13. List of Targets (Attach object visibility diagram. You may list up other targets in additional sheets.)

[illegible]

14. Total Nights Requested in This Semester

Classical mode: nights (nights \times times)

ToO mode: nights (nights \times times)

15. Preferred Dates (Put crosses (x) to the preferred dates.)

	Jan	Feb	Mar	Apr	May	Jun
1st Priority	- - -	- - -	- - -	- - -	- - -	- - U
2nd Priority	- - -	- - -	- - -	- - -	- - -	- - U
3rd Priority	- - -	- - -	- - -	- - -	- - -	- - U

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16. Experiences:

17. Requests Concerning Scheduling: *(including Moon Phases)*

18. Requests Concerning Instruments: *(For KOOLS-IFU: Please specify grisms.)*

19. Technical Description: *(Justify the instrument configuration and the exposure times required to achieve the scientific goals by taking the clear sky rate into account. Specify the required signal-to-noise ratio (SN) and the total time needed including overheads, i.e., calibration frames, telescope acquisition, and detector readout time. Don't forget to **attach ETC output for a typical source as a PDF file.**)*

20. Data priority period: *(Proprietary period is **18 months**. If you desire the extension, please specify the project title and the requested period. The allowance is up to 5 years after starting the project. Please bear in mind that you keep the same project title while it is undergoing.)*

Altitudes, Seimei Telescope

133.5968E 34.5769N, 343 m above sea level

LST →

S.set

Twil

10^h41^m

19^h25^m

20^h25^m

21^h25^m

22^h25^m

23^h25^m

0^h25^m

1^h25^m

2^h26^m

3^h26^m

Moon (dashed):

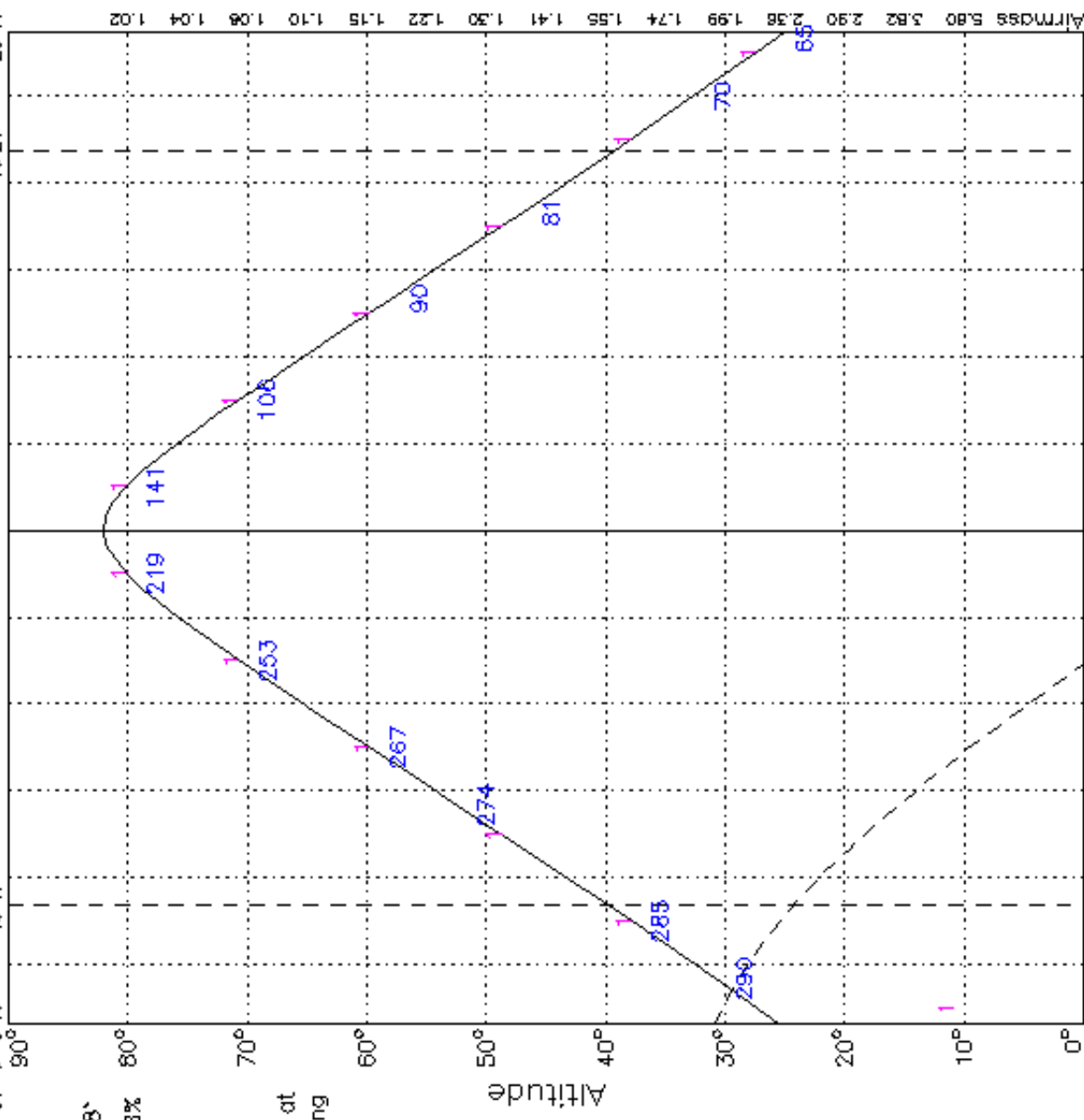
Coordinates:

17^h10^m -24° 8'

Illumination: 48%

Quarter: 1

Numbers below curves are P.A. at the corresponding times.



List of objects:

1 N7662 23^h25^m +42°32'

Mean Solar Zone Time, starting night 13 09 2021

Processed: 2021/03/30 at 01:57:06 UT. lepac Newton Group of Telescopes, La Palma.

KOOLS-IFU Exposure Time Calculator

This ETC was updated on 2020/Oct./2. Please recalculate the results obtained before.

Note: This page does not work well on Internet Explorer. Please use another browser, such as Google Chrome and Mozilla Firefox.

Input

Wavelength		
grism	<input type="text" value="VPH-red"/>	<input type="text" value="VPH-blue"/> <input type="text" value="VPH-red"/> <input type="text" value="VPH495"/> <input type="text" value="VPH683"/>
observing wavelength	<input type="text" value="9068"/>	[Å]
integral range (e.g., spectral resolution)	<input type="text" value="11"/>	[Å]
Object Flux		
object magnitude (point source)	<input type="text"/>	[AB mag]
object flux in the wavelength range	<input type="text" value="1E-15"/>	[erg cm ⁻² s ⁻¹]
Sky Condition		
seeing (or PSF size)	<input type="text" value="3.0"/>	<input type="text" value="1.0"/> <input type="text" value="1.5"/> <input type="text" value="2.0"/> <input type="text" value="3.0"/> <input type="text" value="4"/> <input type="text" value="5"/>
sky background brightness	<input type="text"/>	[AB mag]
	<input type="text" value="1E-16"/>	[erg cm ⁻² s ⁻¹ arcsec ⁻² Å ⁻¹]
Observation Settings		
exposure time of a frame	<input type="text" value="600"/>	[sec]
number of frames	<input type="text" value="1"/>	<input type="text" value="+"/> <input type="text" value="-"/>
For Experts		
field of view per fiber	<input type="text" value="0.5682"/>	[arcsec ²]
optics throughput	<input type="text" value="1.89"/>	[%]
number of combining fibers	<input type="text" value="12.44"/>	
object flux fraction in aperture (please change to 100% for extended source)	<input type="text" value="50"/>	[%]
number of extract pixels for fiber direction	<input type="text" value="5"/>	[pixel]
readout noise	<input type="text" value="5"/>	[e ⁻ / pixel]
wavelength-pixel scale	<input type="text" value="2.73"/>	[Å]
M1 radius	<input type="text" value="189"/>	[cm]
M1 shaded radius by M2	<input type="text" value="55"/>	[cm]

Result

total exp time [sec]	S/N	total signal [e ⁻]	total noise [e ⁻]	object photon noise [e ⁻]	sky photon noise [e ⁻]	readout noise [e ⁻]
<input type="text" value="600"/>	<input type="text" value="2.57"/>	<input type="text" value="265.87"/>	<input type="text" value="103.28"/>	<input type="text" value="16.31"/>	<input type="text" value="64.30"/>	<input type="text" value="79.16"/>

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This site uses javascript.

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