

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

Proposal ID: 25B-K-

Date: Y 2025 M 04D 09

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

Time Critical: ☐ N Y: Yes N: No

(If yes, please specify your preferred period, date(s), and time in sec. 17. Requests Concerning Scheduling.)

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.

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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 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.)

	Jul	Aug	Sep	Oct	Nov	Dec
1st Priority	UU –	– – –	– – –	– – –	– – –	– – –
2nd Priority	UU –	– – –	– – –	– – –	– – –	– – –
3rd Priority	UU –	– – –	– – –	– – –	– – –	– – –

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16. Experiences:

17. Requests Concerning Scheduling: *(including Moon Phases. If time-critical observation, please specify your preferred period, date(s), and time.)*

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):

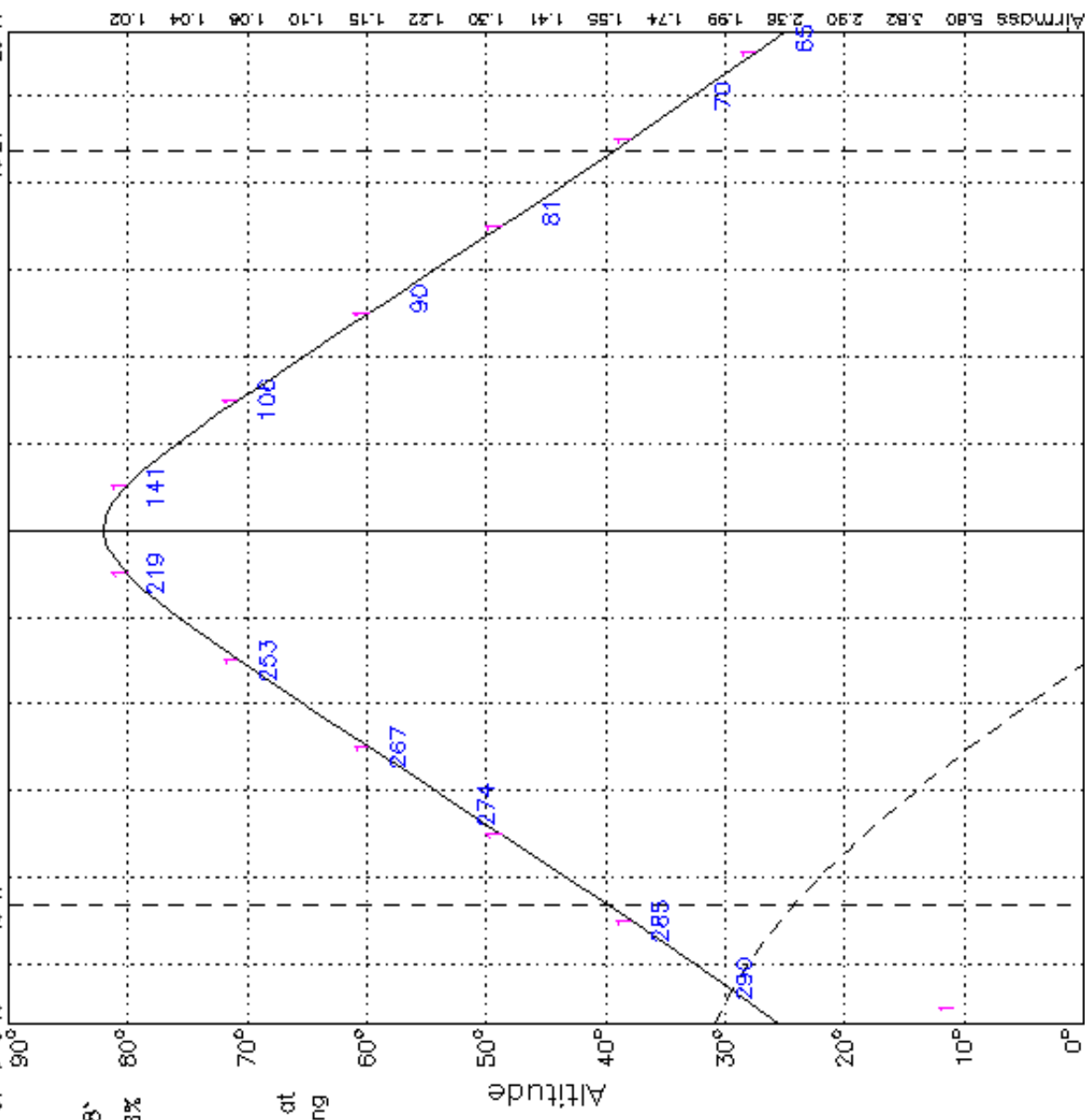
Coordinates:

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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