

KOREAN VLBI NETWORK OBSERVING APPLICATION

VLBI

Proposal ID: 2025A-00

Received Date: 2024/ /

TERM: 2025A

1. Title of proposal: PROJECT NAME HERE

2. Authors: (PI on the 1st line)

| Name | E-mail | Institution/Country | Student |
|------------------|--------------------|-------------------------|---------|
| Name of author 1 | E-mail of author 1 | Institution of author 1 | No |
| Name of author 2 | E-mail of author 2 | Institution of author 2 | No |
| Name of author 3 | E-mail of author 3 | Institution of author 3 | No |
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***If any student is involved, please give the following information.**

M.S. Ph.D For thesis? Yes No

3. Contact author:

Name: your-name-here E-mail: your-email-here Phone: +XX-XXX-XXX-XXXX FAX: +XX-XXX-XXX-XXXX

4. Staff support:

– Observing setup: None Consultation Extensive help
 – Post processing: None Consultation Extensive help

5. Proposal type:

KVN+Sejong (Shared risk mode) Joint proposal (If joint, network name:)
 Resubmission Related previous/current proposal ID:

6. Scientific categories:

Galactic Extragalactic Astrometry Geodesy Radio transient and pulsars
 AGN Maser Galactic center Star Formation Evolved star

7. Observing type:

Continuum Spectral line Phase referencing Polarimetry
 Survey Multi-frequency Target of opportunity

8. Observing frequency and polarization:

22GHz 43GHz 86GHz 129GHz
 Single polarization Dual polarization • Note that Sejong is available at 22/43 GHz (1/2Gbps) only.

9. Observing sessions:

single epoch multiple epochs
 – Total time requested: 100 hrs
 – Number of sessions: 10; Number of hour each: 10 hrs; Separation: 10 days
 – Min/Max LST (HH:MM:SS): hh1:mm1:ss1 – hh2:mm2:ss2
 – Preferred range of dates or dates which are NOT acceptable:

10. Abstract (200 words max, 10 point)

Sample abstract

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11. Disk usage (recording time/total time): 0.8

12. Recording bandwidth: 16MHz 32MHz 64MHz 128MHz 256MHz 512MHz 1024MHz
Recording rate: 512Mbps 1Gbps 2Gbps 4Gbps 8Gbps 16Gbps 32Gbps

13. Spectroscopy only (if you observe more than 4 lines, please attach the additional line information in a separate sheet.)

| Items | Line 1 | Line 2 | Line 3 | Line 4 |
|---|------------|------------|------------|------------|
| transitions to be observed | SiO(J=1→0) | SiO(J=1→0) | SiO(J=1→0) | SiO(J=1→0) |
| velocity range in LSR (km s ⁻¹) | | | | |
| channel bandwidth (kHz) | | | | |
| rest frequency (MHz) | | | | |

14. Number of sources: [If more than 8 sources, please attach separate list.]

| 15. Name [order of priority] | Coordinates (J2000) | | Freq. (MHz) | Band width (MHz) | Flux density | | Time requested (hr) | Cal? (Y/N) |
|---------------------------------|---------------------|-----------------------|----------------|------------------------|---------------|---------------|---------------------------|---------------|
| | RA (hh:mm:ss.ss) | DEC (±dd:mm:ss.ss) | | | total (Jy) | peak (mJy) | | |
| Source name 1 | 11:22:33.1234 | +11:22:33.123 | 22235.080 | 100.0000 | 10.00 | 20.00 | 30.0 | N |
| Source name 2 | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| Source name 8 | | | | | | | | |

16. Correlation setup:
 – Correlator integration time: 1.0 (default 0.8096 sec)
 – Spectral channels per 16 MHz: 256 (default 128 channel for continuum, 512 for spectral line)
 Full stokes correlation Pulsar gating P-cal extraction Multiple phase center
If you need a special correlation setup, please briefly specify here.

17. Special requirements:
 – Sites :
 – Dates :
 – Frequencies :
 – etc :

18. Please attach the following items written in English using TeX. The maximum number of pages is 2+1 if you requested less than 100 hours, otherwise it is 4+1. The minimum font size is 10.
 – Scientific and technical justifications
 – List of publications made by previous KVN observations
 – If you requested ToO (Target of Opportunity) observation, please include well-defined trigger criteria.