VSOP AO3 PROPOSAL COVER SHEETS

DEADLINE : 1 October, 1999 SEND TO : VSOG, ISAS, 3-1-1 Yoshinodai, Sag	gamihara, Kanagawa 229-8510, JAPAN
(1) Date prepared: 28 September, 1999	
(2) Proposal title: Collimation and evolution o	f the Vir A jet.
(3) INVESTIGATORS	INSTITUTION
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(5) Proposal Abstract:	. Officed States of Trincited
Four epochs of $\lambda 6$ cm observations of the Key Sou observing window. From these observations, and servations at $\lambda 2$ cm, the spatial and temporal evolution the nature and role of the bright sinuous structure with helical magnetic field lines wrapped around jet.	in conjunction with parallel ground-based ob- ution of the jet will be followed. In particular, es will be examined. These may be associated
(6) Proposal Category (indicate all that apply): Object type: ✓ AGN, ☐ Maser, ☐ Stellar, ☐ Pulsar Observation type: ✓ Continuum, ☐ Spectral Line, ☐ Polar	, \square Other:

(7) Number of proposed experiments

An 'experiment' is one or more observations of one source at a fixed HALCA set-up. A request to observe the same source at 1.6 GHz and separately at 5 GHz requires two columns to be filled in in item (8) below. A request to observe the same source with HALCA simultaneously observing at 1.6 GHz and 5 GHz requires one column to be filled in. Multi-epoch observations of the same source at the same frequency – a 'monitoring experiment' – requires only one column to be filled in. Suggested observing dates, especially for for time-critical and monitoring experiments, should be specified in item (11).

The number of experiments in this proposal is: 1

(8) Details of proposed experiments

	Experiment 1	Experiment 2	Experiment 3	Experiment 4
Source name $(Jhhmm \pm ddmm)$	J1230+1223			
Alternative name	3C274, Vir A			
RA(J2000) (hh mm ss.ssss)	12 30 49.42340			
Dec(J2000) (dd mm ss.ssss)	+12 23 28.0442			
Observing frequency band (GHz)	5			
Continuum observations:				
Standard VSOP freq. channels?				
Channel A range (MHz)				
Channel B range (MHz)				
Spectral line observations:				
Ch.A spectral line rest freq. (MHz)				
Ch.A LSR velocity (km/s)				
Ch.B spectral line rest freq. (MHz)				
Ch.B LSR velocity (km/s)				
FWHM of field of view required (mas)				
Min. spectral channels per IF channel	32			
Correlator averaging time (sec)	2			
No. of correlating passes $(if > 1)$				
Total flux density (Jy)	70			
Correlated flux (mJy)	700			
Ground Radio Telescopes:				
Suggested array given at Item (11)?				
GRT observing mode:				
128Mbps LCP (standard)				
128Mbps LCP/RCP	lΠ			
256Mbps LCP/RCP				
Preferred correlator:				
No preference				
Mitaka				
Penticton				
Socorro				
Monitoring programs:				
Number of observations	4			
Mean interval (days)	30			
Related VSOP proposal code(s)	V081B, W040A1-3			

(9) VSOP spacecraft observing mode (see Section 3 and Table 5 of the VSOP Proposer's Guide):	
 (10) Assistance with preparation of ground telescope schedule files: 	
(11) Additional notes to the scheduler:	
(12) Attach a scientific and technical justification, not in excess of 2 pages of text and 2 pages of figures. Refer to the VSOP Announcement of Opportunity for detailed instructions. Preprints and reprints will not be forwarded to the Scientific Review Committee.	
EITHER e-mail the completed LATEX file to submit@vsop.isas.ac.jp and send two paper copie of the complete proposal to: VSOP Observing Proposals VSOP Science Operations Group	\mathbf{s}

Information from the Cover Sheets of scheduled proposals will be made available from the VSOP WWW site.

OR e-mail the completed LATEX Cover Sheets file and, in a separate e-mail, the postscript

Proposals must be received at ISAS by 1 October 1999

Institute of Space and Astronautical Science

file of the scientific and technical justification, to submit@vsop.isas.ac.jp

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