Observing Application

Early Radio Observations of Nova Vul 2007

Abstract:
Nova Vul 2007 was discovered yesterday, Aug. 8, 2007, and it is still rising in the optical. It is situated within a bi-polar nebular shell, and may thus be a new jet-producing recurrent nova. We request VLA ToO observations to be performed at two epochs: once as soon as possible, and then again in a few days. Our total time request is 4 hours.

Authors:

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Joint:
Not a Joint Proposal

Observing type(s):
Continuum, Single Pointing(s), Polarimetry, *

Resources:

Resource name	Tele. Conf.	Frontend & Backend		Set up
X Band	VLA A	X Band 3.6 cm 8080 - 8750 MHz VLA Correlator - Single Channel Continuum		Bandwidth: 50 MHz Rest frequencies: 8435.1,8485.1 MHz
L band	VLA A	L Band 20 cm 1200 - 2000 MHz VLA Correlator - Single Channel Continuum		Bandwidth: 50 MHz Rest frequencies: 1464.9,1385.1 MHz

Sources:

Source name	RA / RA Range	DEC / DEC Range	System	Velocity/z	Group name
Nova Vul 2007	19:54:24.3 00:00:00.0	20:52:47 00:00:00	J2000	0 km/s	

Sessions:

Session Name	Session Time	Repeat	Separation	LST Minimum	LST Maximum	Elevation Minimum
Epoch 2	2.0 hours	1	0 day	16:00:00	24:00:00	0
Epoch 1	2.0 hours	1	0 day	14:30:00	02:00:00	0
Epoch 2	2.0 hours	1	0 day	14:30:00	02:00:00	0

Session Constraints:

Session Name	Constraint	Comments
Epoch 2		
Epoch 1		
Epoch 2		

Session Source/Resource Pairs:

Session Name	Source	Resource	Time	Figure of Merit
Epoch 2	Nova Vul 2007/	X Band	1.5 hour	0.02mJy/bm
Epoch 2	Nova Vul 2007/	L band	0.5 hour	0.04mJy/bm
Epoch 1	Nova Vul 2007/	X Band	1.5 hour	0.02mJy/bm
Epoch 1	Nova Vul 2007/	L band	0.5 hour	0.04mJy/bm
Epoch 2	Nova Vul 2007/	X Band	1.5 hour	0.02mJy/bm
Epoch 2	Nova Vul 2007/	L band	0.5 hour	0.04mJy/bm

Total Time per Configuration:

Configuration	Total Time
A	6.0