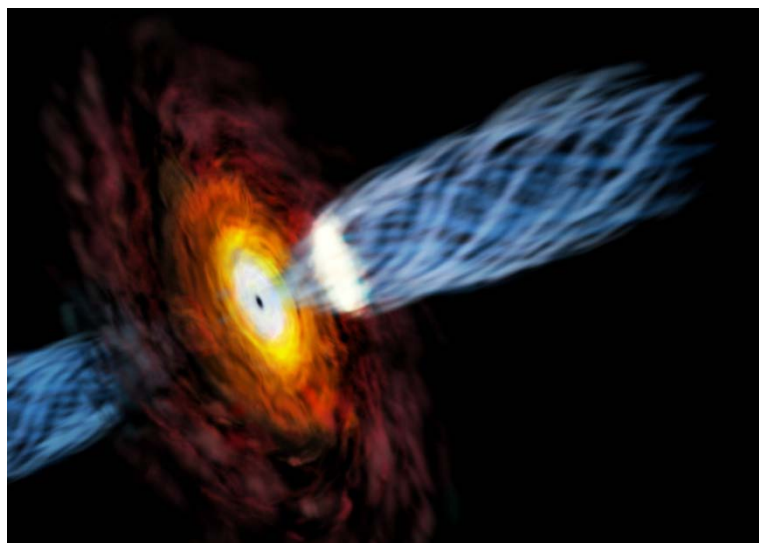


AGN jet Science with KVN/VERA



Motoki Kino (NAOJ)
On behalf of
KVN/VERA AGN SWG

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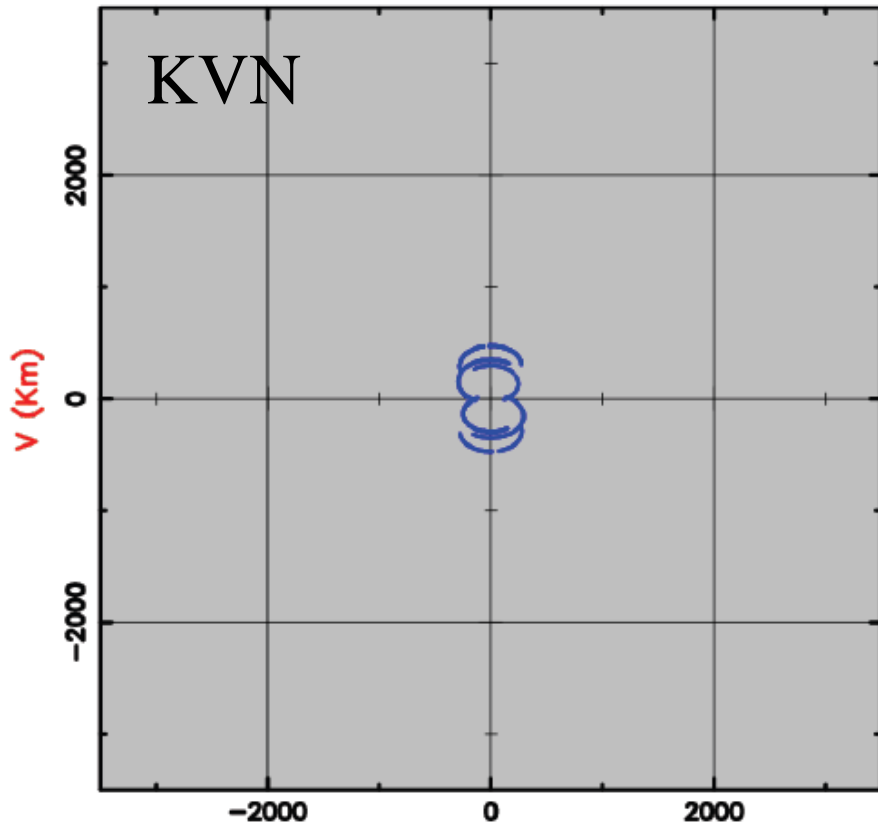
Aim for

- Light-curves & Kinematics of γ -loud blazars
 - radio-core vs. γ -ray fluxes
 - δ_{radio} vs. δ_{γ}
- Spectra of extremely young jets
- Polarized fine structures of jets (future plan)
 - Origin of γ -ray emission in jets
 - Evolution of extremely young jets

Advantage of KVN+VERA (1)

UV Coverage for 3C84

in e_gplan



UV Coverage for 3C84

in e_gplan

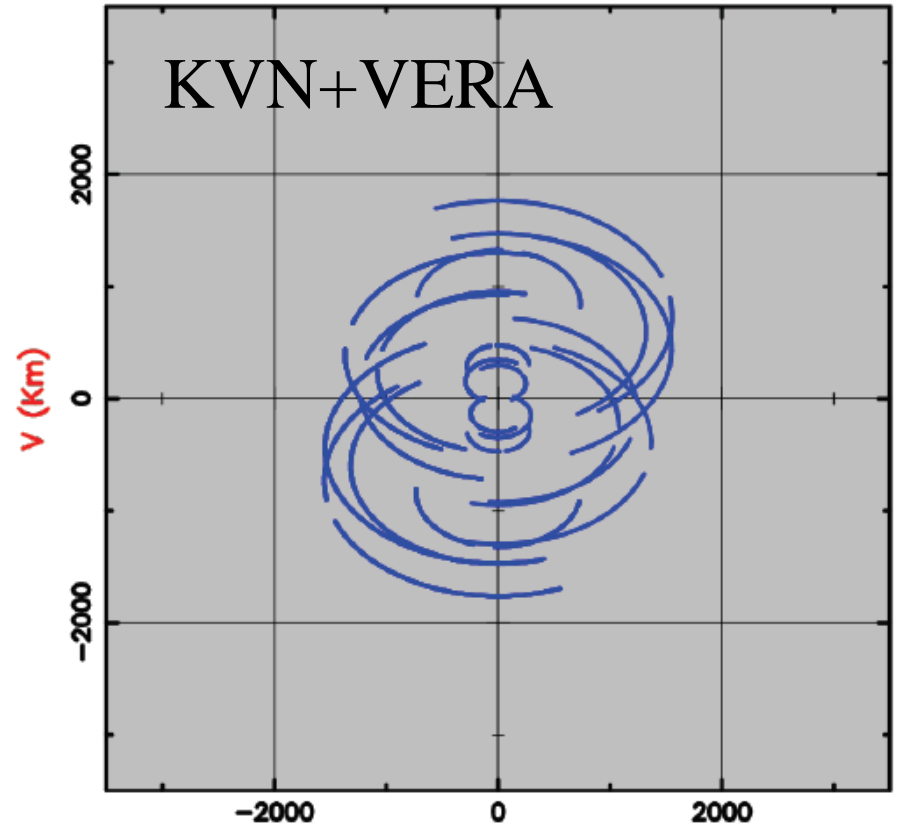
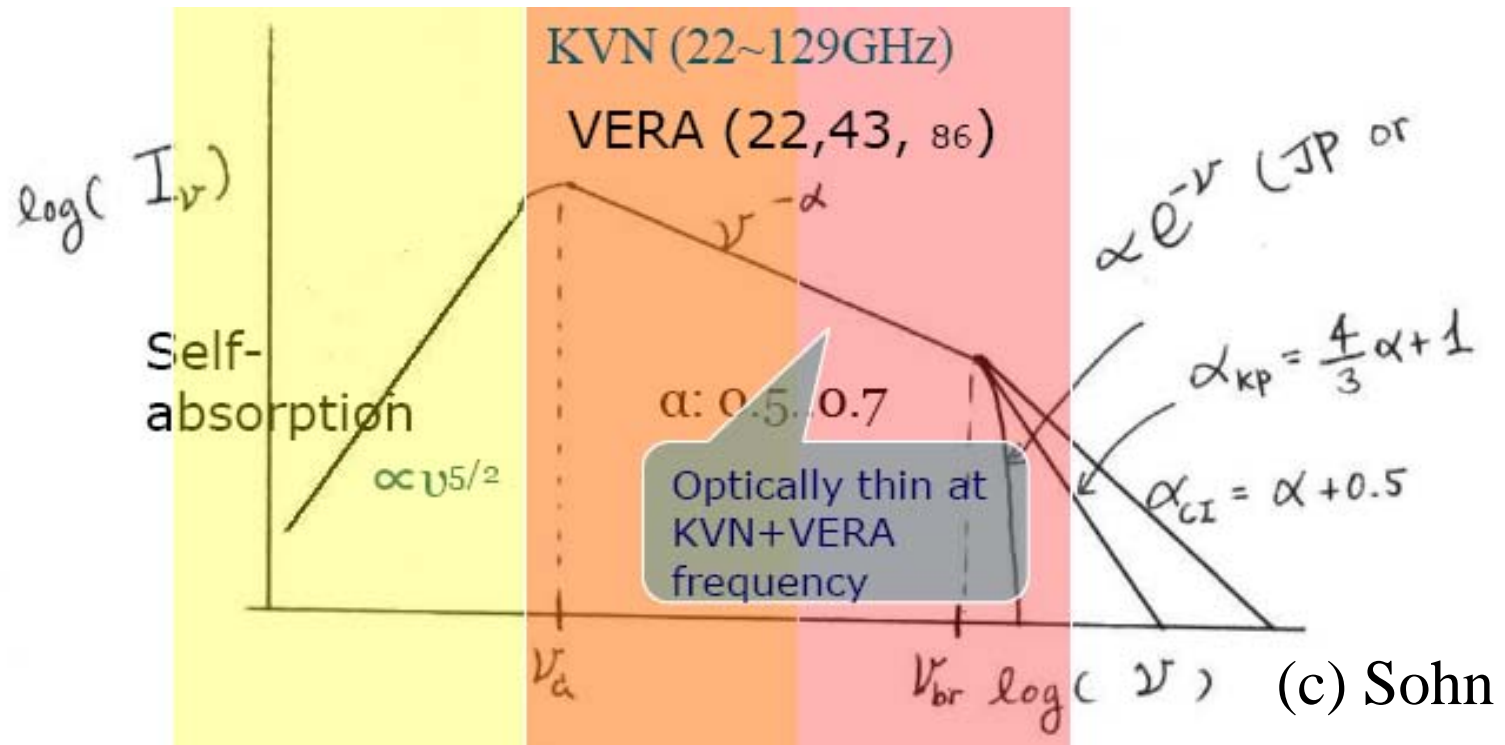


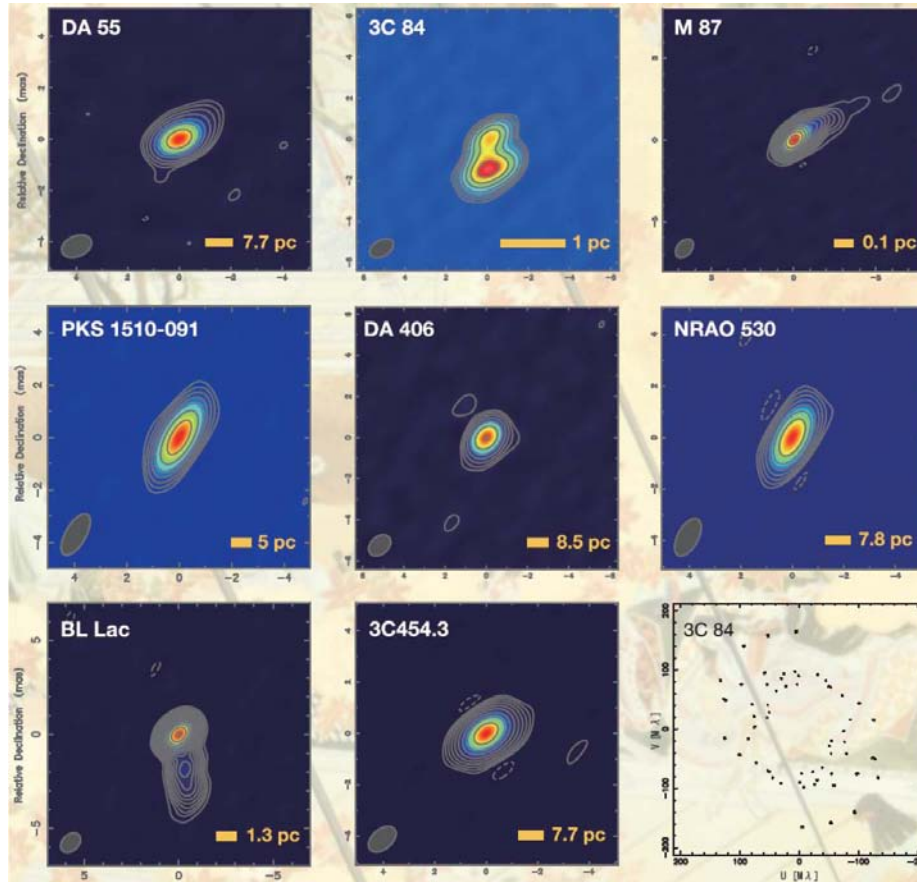
Image quality is crucial, because jets are extended structures.

Advantage of KVN+VERA (2)



Choosing higher freq. is essential, because jets begin to be transparent to self-synchrotron.

From GENJI (VERA) to *extended-GENJI* (VERA+KVN)

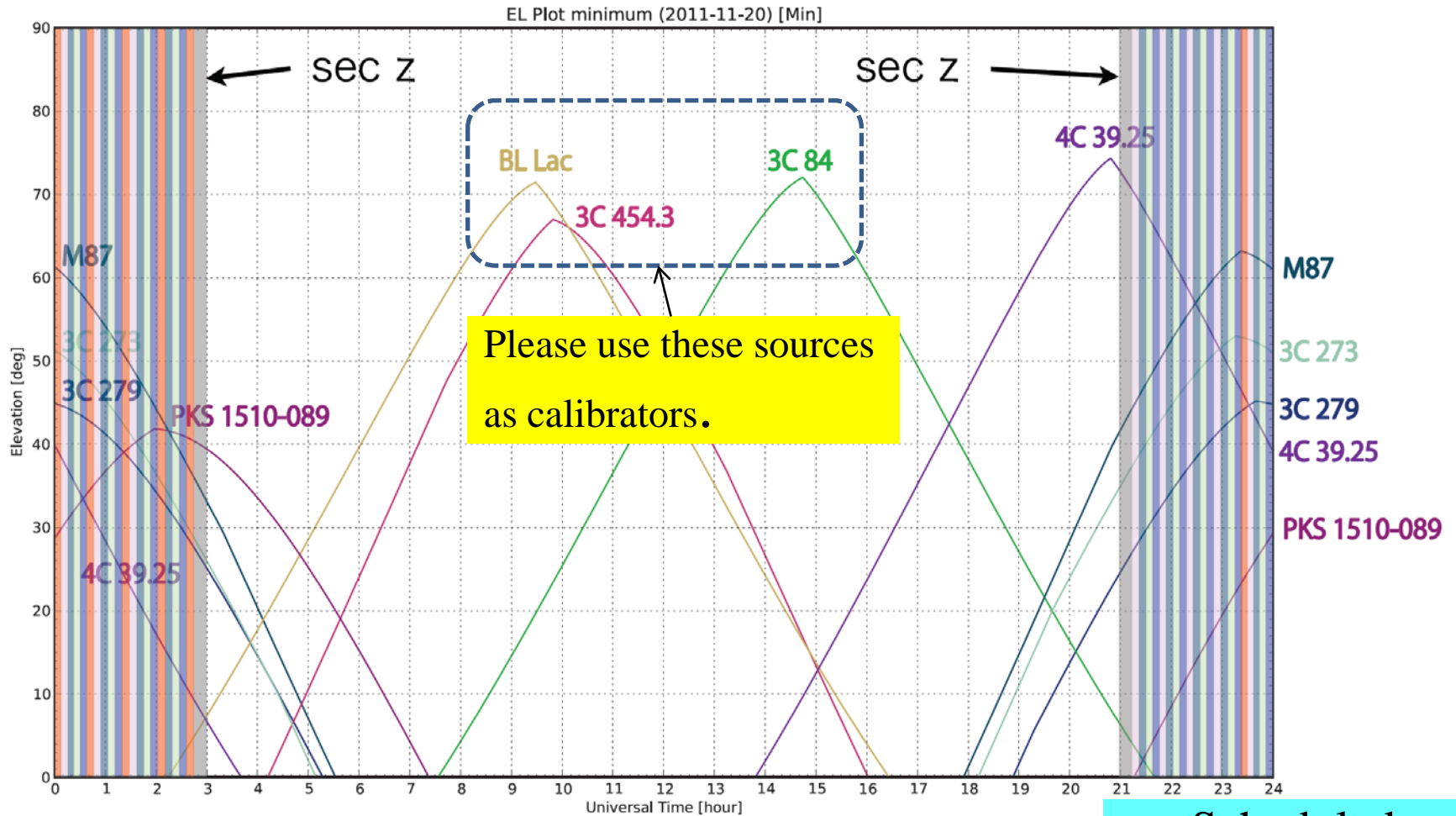


(c) GENJI

For the pursuit of better image quality, we propose *e-GENJI*.

KVN+VERA Test Observation (End of Nov. 6hrs + 6hrs)

Min EL (first half : Yonsei, latter half : Mizusawa or Ogasawara)



- total time : 6 hour (4 tapes + sec z x 2)
- 10 scans/tape (1 scan = 6 min, Threw time = 2 min)

Scheduled
by K. Akiyama

Summary

- The *e*-GENJI may have advantages over other monthly-monitoring programs of blazars by VLBA (MOJAVE/Boston U), **because relevant timescales to blazars are shorter than ~1 month.**

KVN



VERA

Backup Slides

GENJI source list

Source	Alias	R.A. (J2000)	DEC (J2000)	z	Optical ID
J0136+4751	DA55	01h36m58.5497s	+47d51m29.100s	0.859	FSRQ
J0319+4130	3C84	03h19m48.1601s	+41d30m42.106s	0.0176	RG
J1230+1223	M87	12h30m49.4233s	+12d23m28.043s	0.004360	RG
J1512-0905	PKS1510-091	15h12m50.5329s	-09d05m59.828s	0.36	FSRQ
J1613+3412	DA406	16h13m41.0642s	+34d12m47.908s	1.39712	FSRQ
J1733-1304	NRAO530	17h33m02.7057s	-13d04m49.547s	0.902	FSRQ
J2202+4216	BL Lac	22h02m43.2913s	+42d16m39.979s	0.0686	BL Lac
J2253+1608	3C454.3	22h53m57.747s	+16d08m53.560s	0.859	FSRQ