

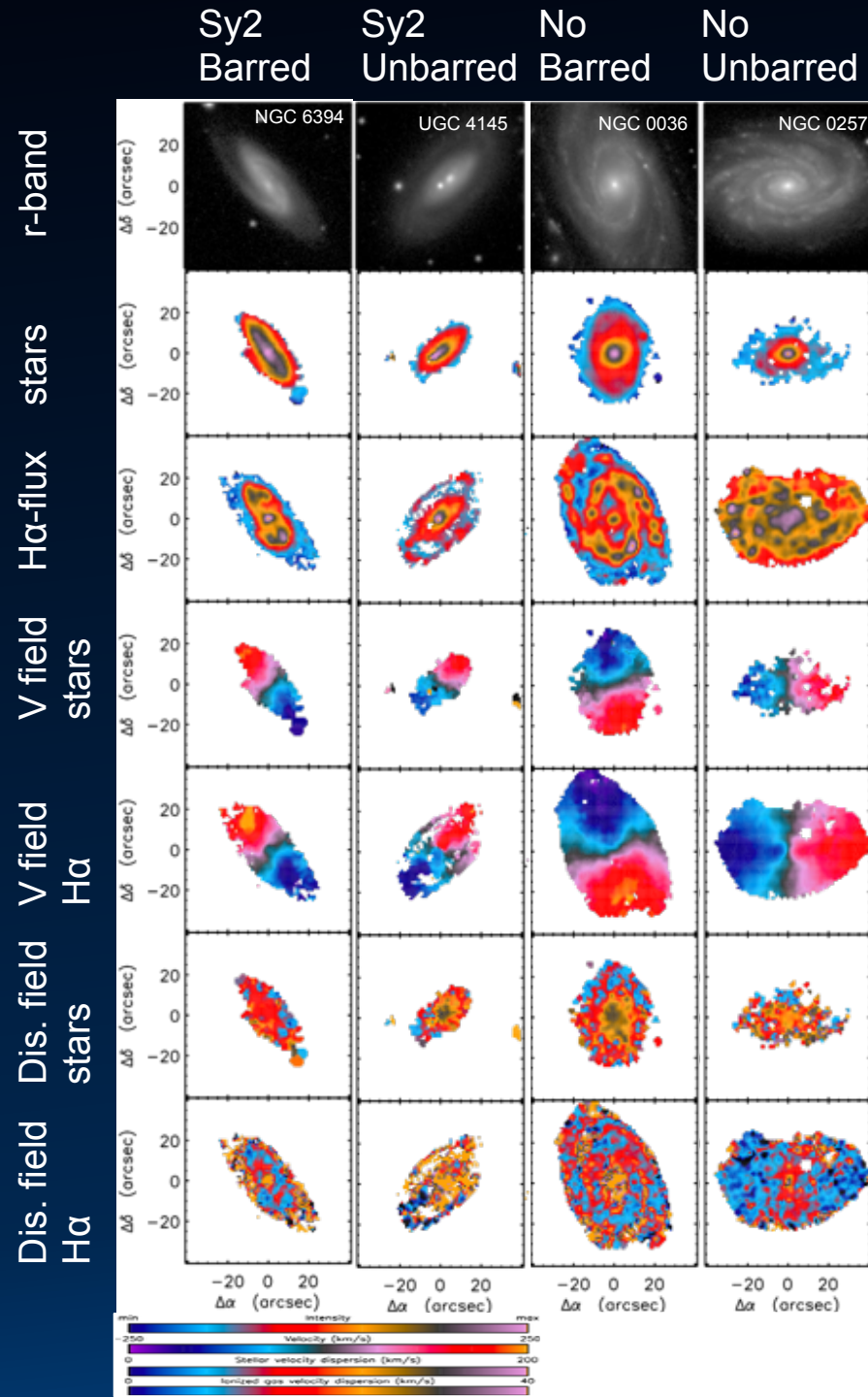
From CALIFA to HARMONI: triggering Active Galactic Nuclei over Cosmic Time

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Goals: characterize the gas content and kinematics of active and non-active galaxies with and without bars in the local universe to then probe the same spatial scales in galaxies at redshift up to $z \sim 2$ using HARMONI on the E-ELT.

INSTRUMENT	ANGULAR RESOLUTION	Size @ $z=0.004$ (pc)	Size @ $z=0.015$ (pc)	Size @ $z=0.1$ (kpc)	Size @ $z=1$ (kpc)	Size @ $z=2$ (kpc)
Seeing-limited	1.00"	79	309	2	20	40
FRIDA	0.04"	3.2	12	0.08	0.8	1.6
FRIDA	0.02"	1.6	6.2	0.04	0.4	0.8
HARMONI	0.03"	2.4	9.3	0.06	0.6	1.2
HARMONI	0.01"	0.8	3.1	0.02	0.2	0.4
HARMONI	0.004"	0.3	1.2	0.008	0.08	0.2