

NEW SMC SNR

Kurt van der Heyden

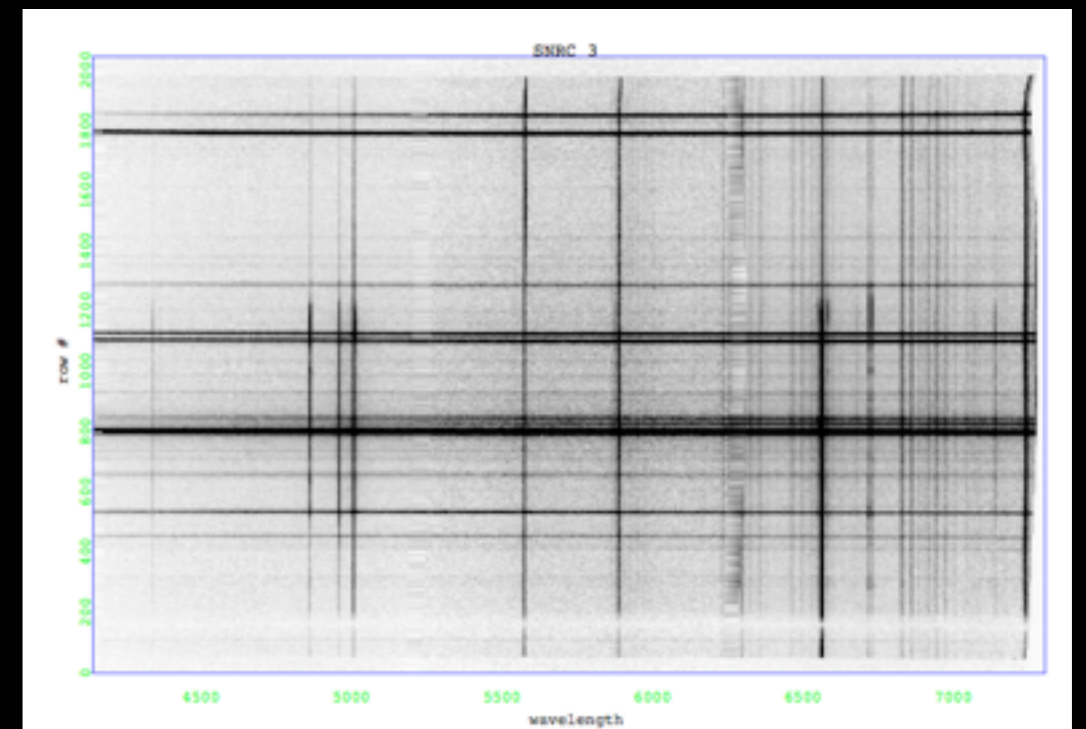
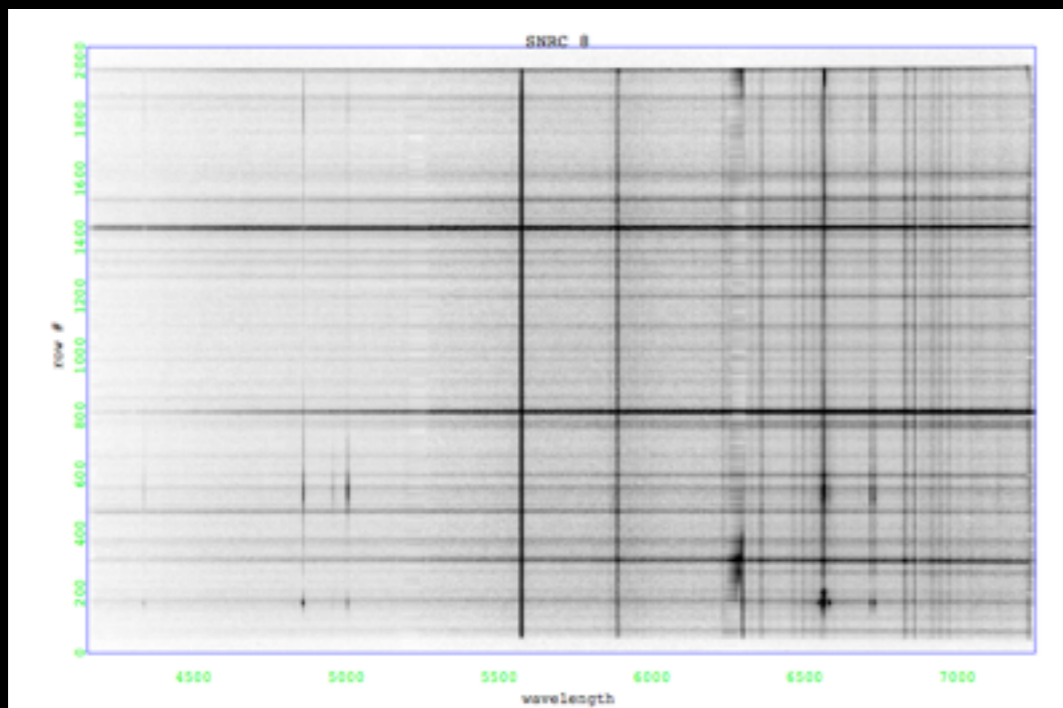
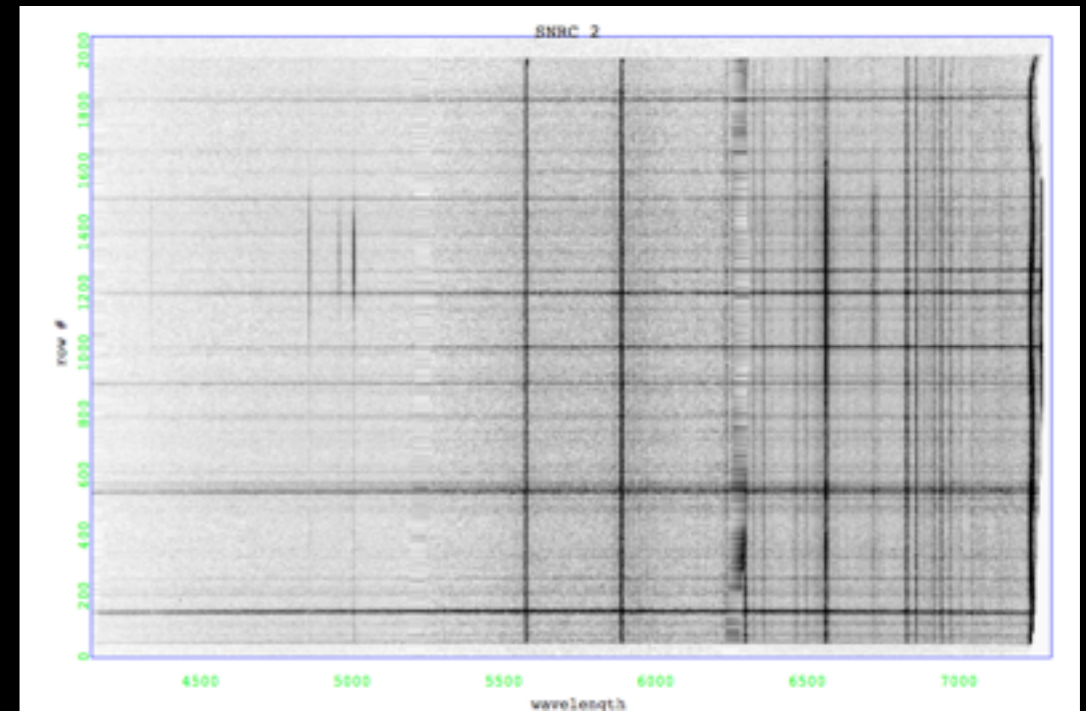
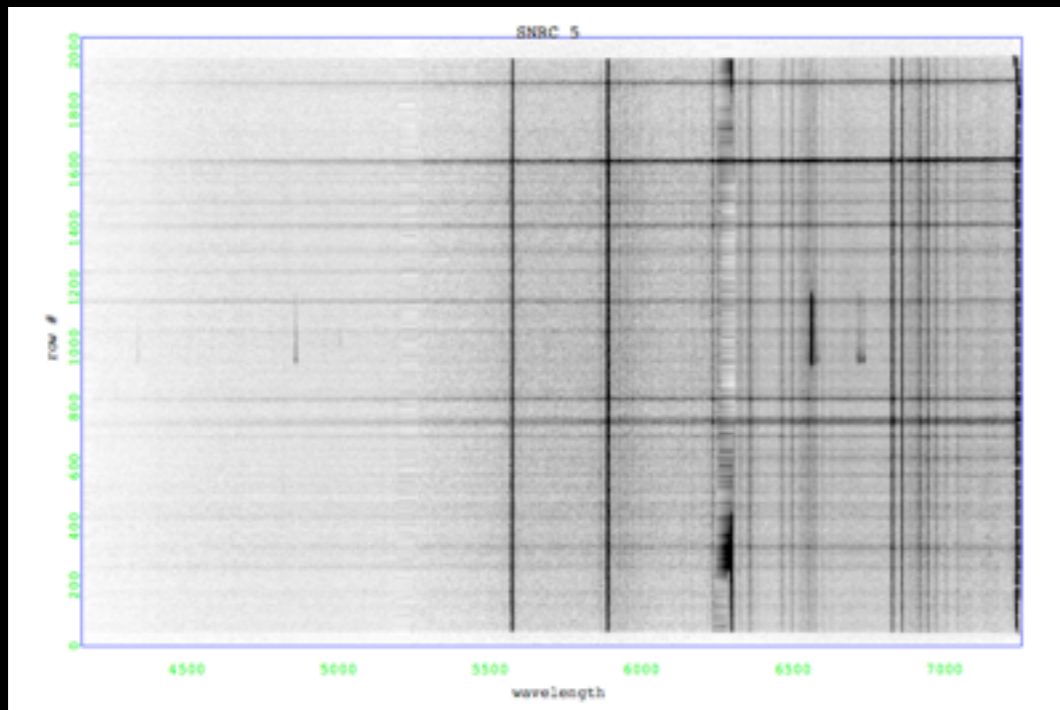
David Buckley (PI), Miroslav Filipovic, Zolile Mguda

SALT Science Symposium 6/11/12

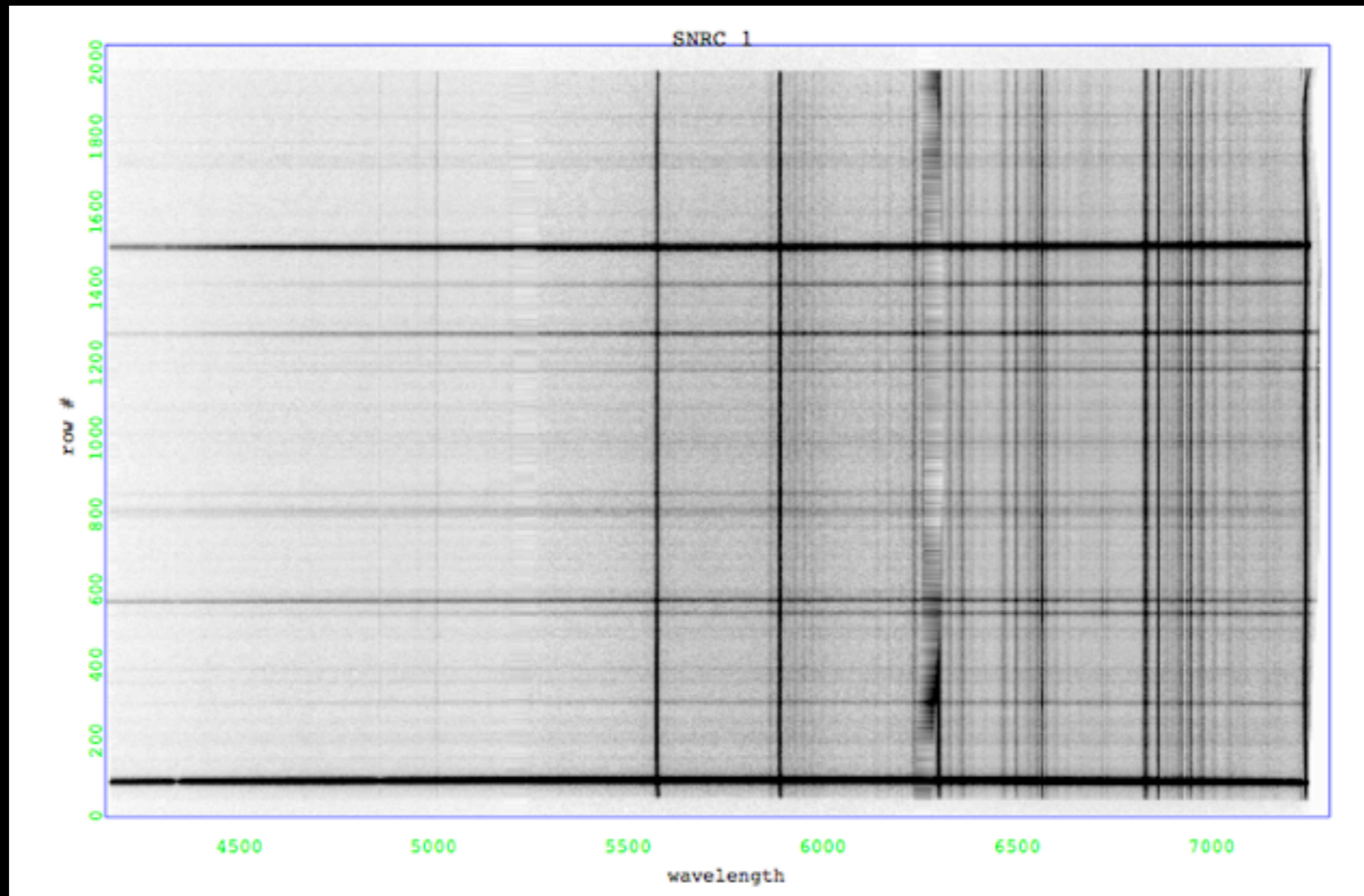
SALT SNR

- 8 candidates (RSS LS, PG900)
 - $[\text{SII}]/\text{H-alpha} > 0.4$
 - $[\text{O I}](\lambda 6300 + \lambda 6364)$ and $[\text{O II}](\lambda 3727)$
 - $[\text{O III}](\lambda 4959 + \lambda 5007)/[\text{O III}](\lambda 4363)$
- Known SNR : IKT2, J0047-7306, HFPK419

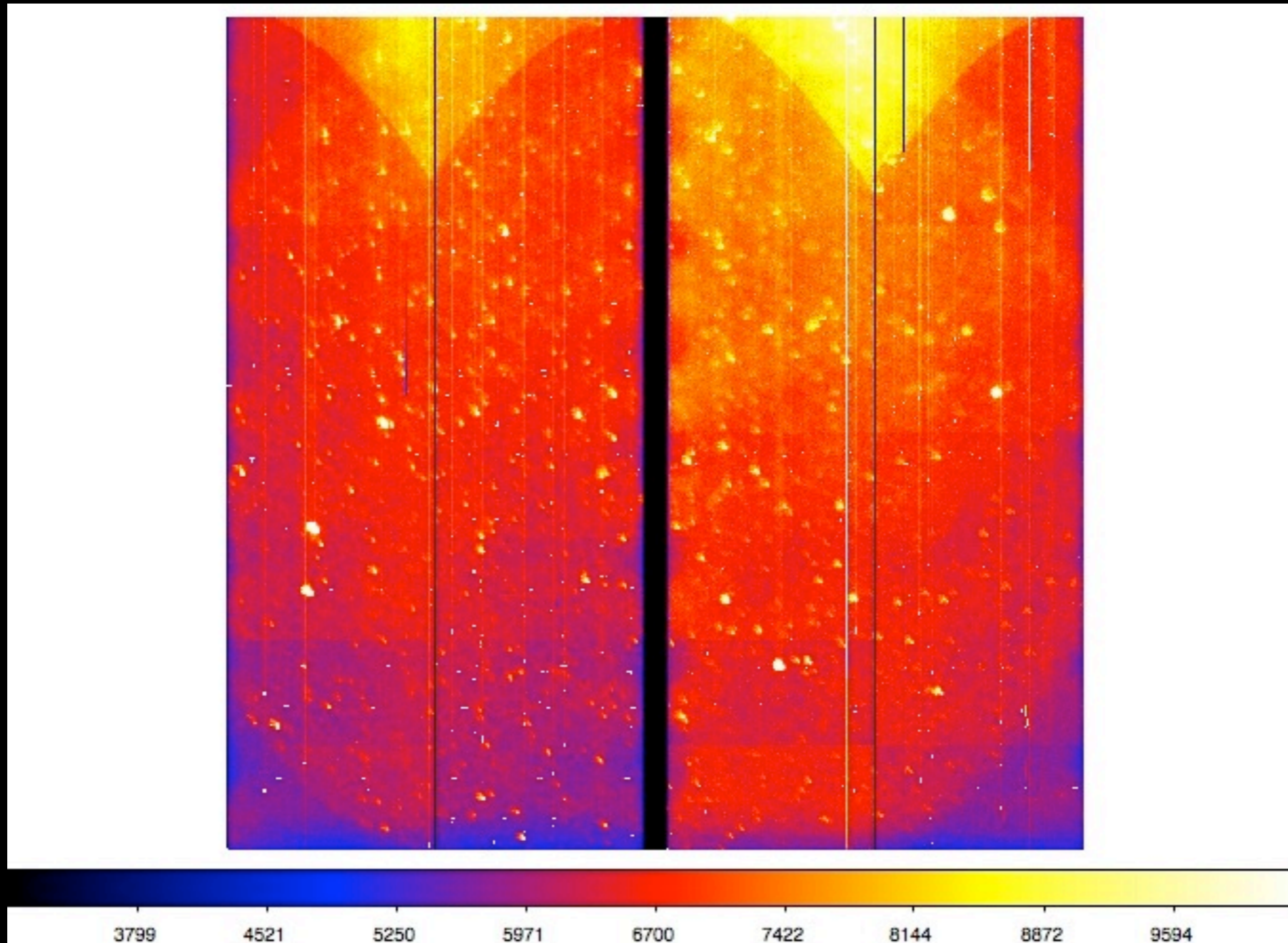
2D spectra



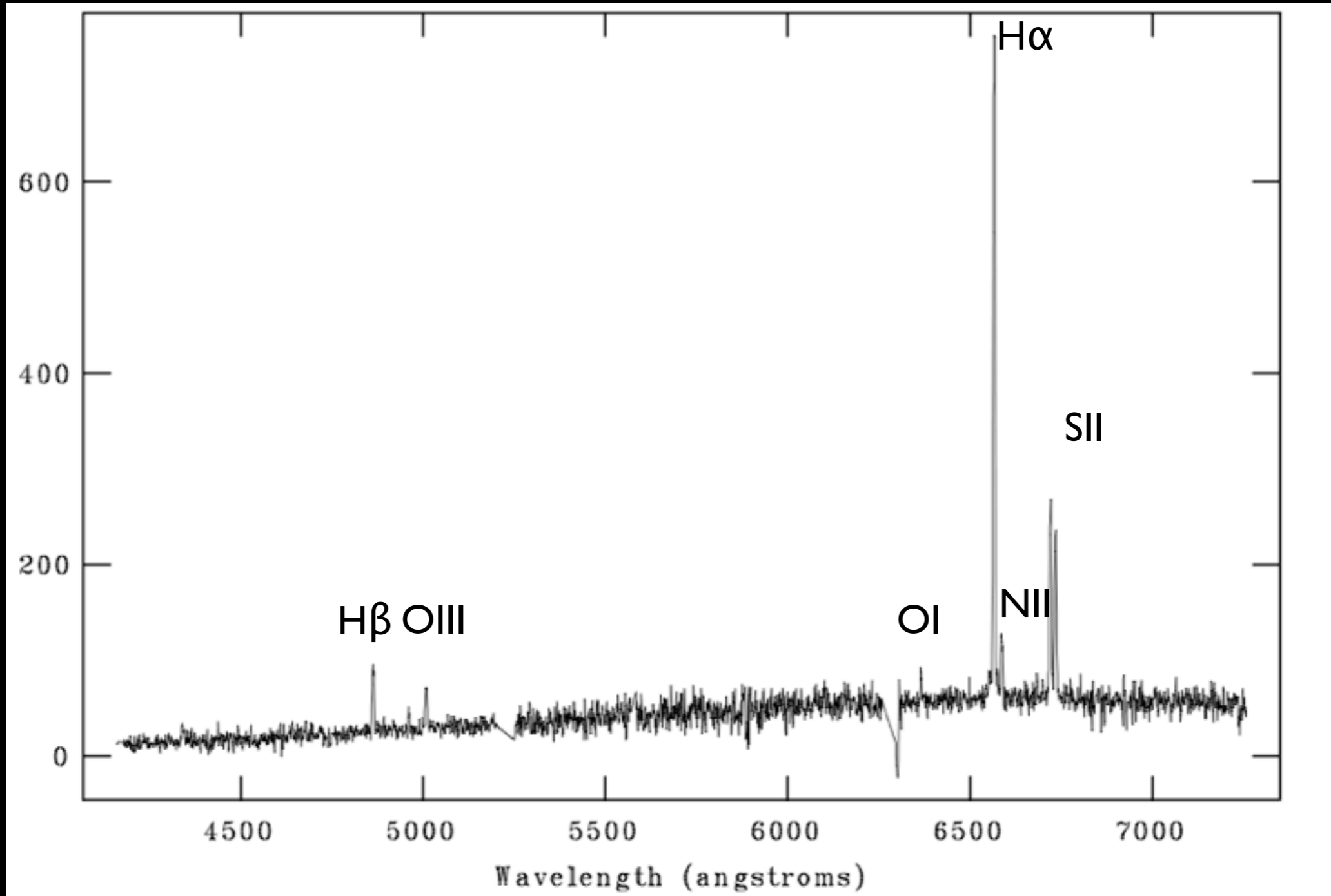
2D spectrum



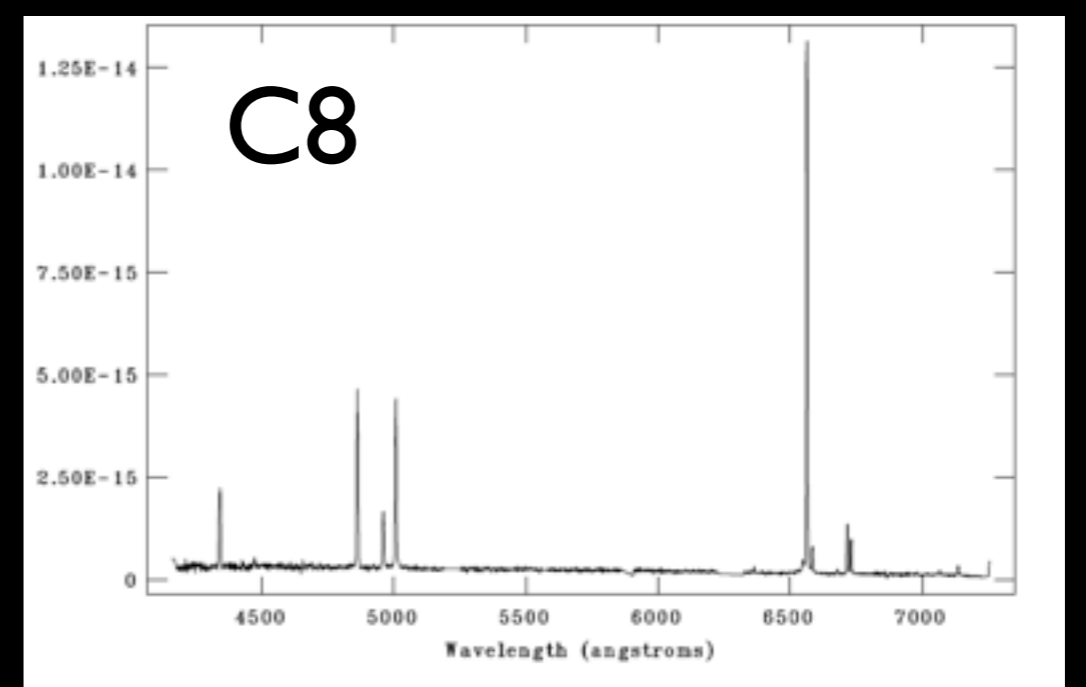
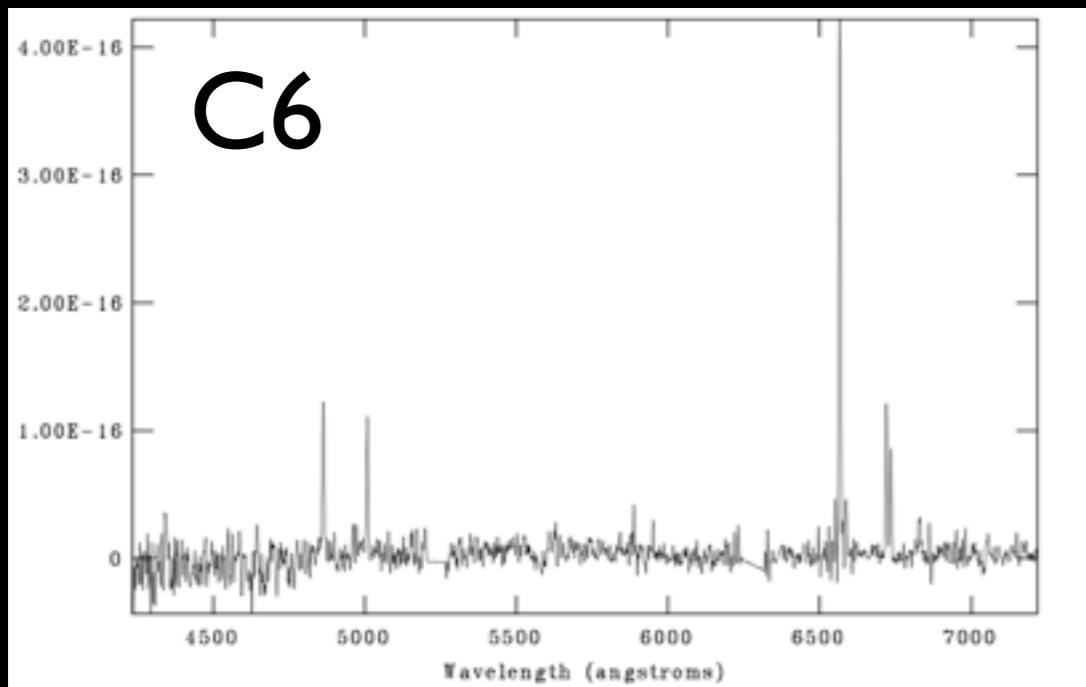
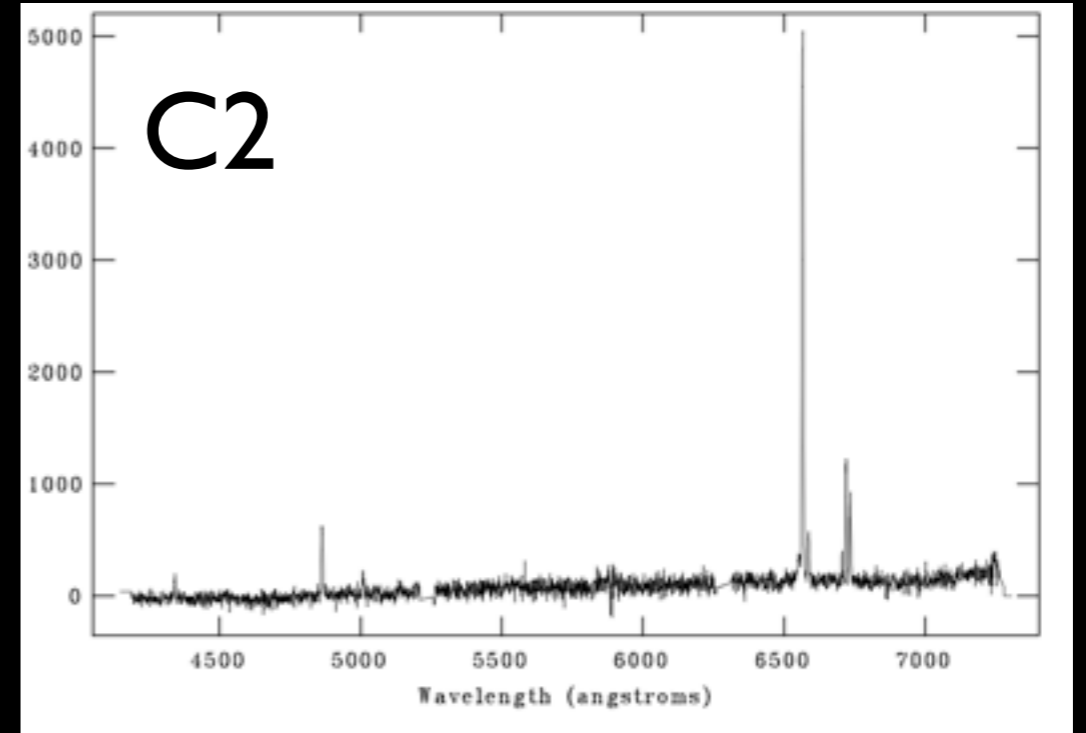
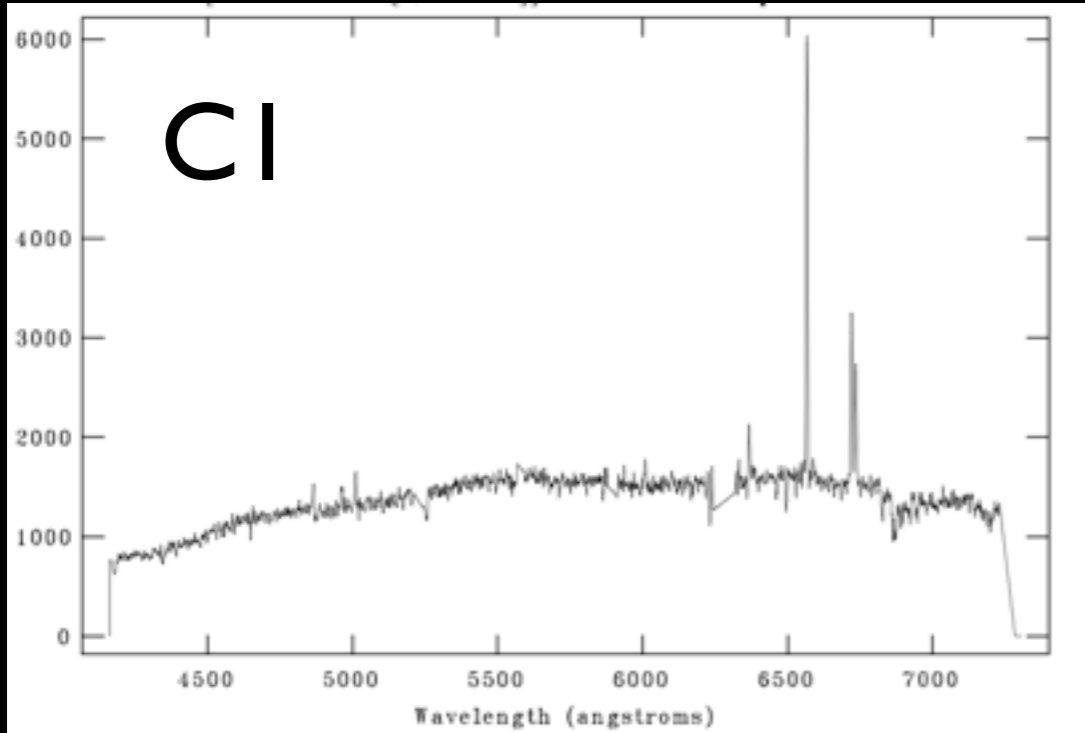
SALTICAM acquisition image



Known SNR - IKT 2



Candidate SNR

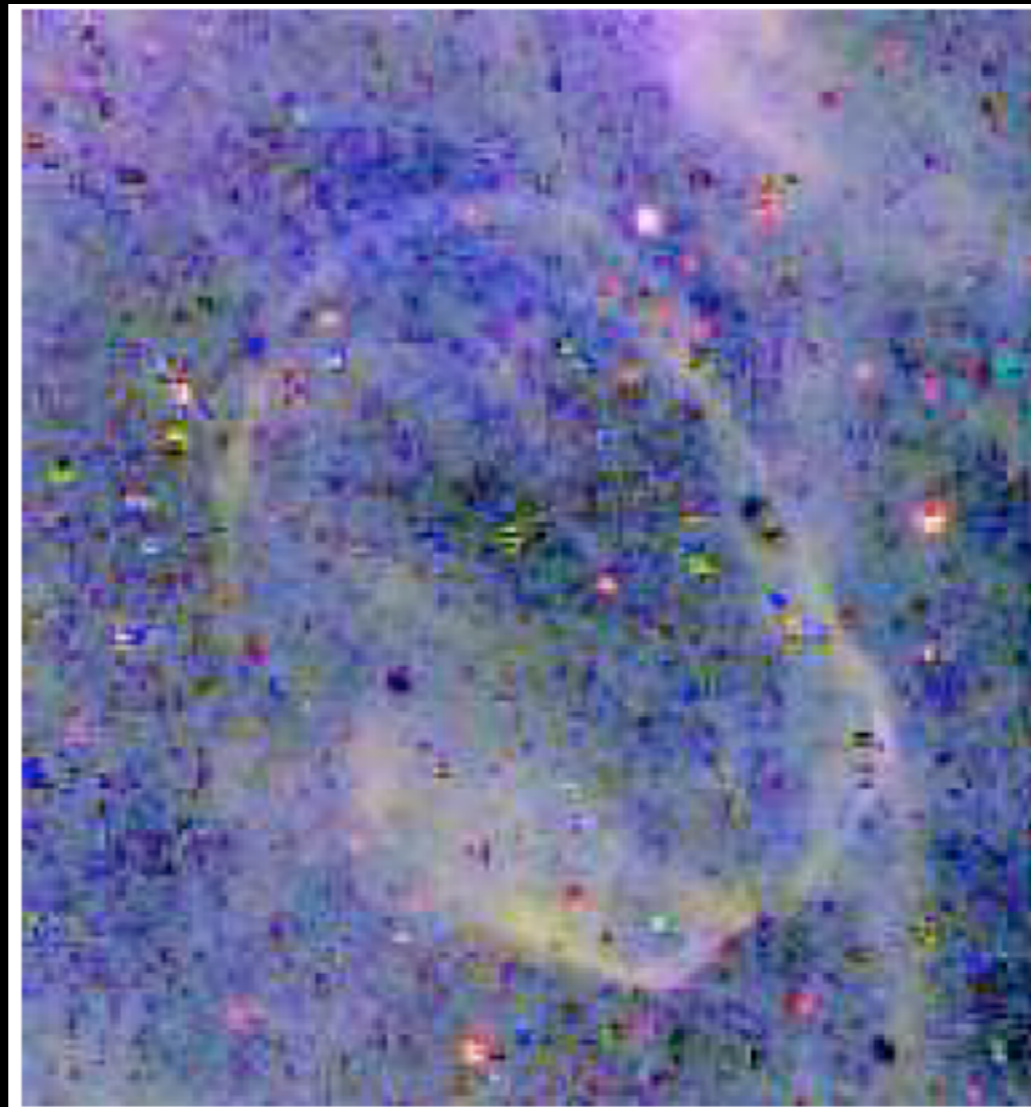


[SII]/H-alpha

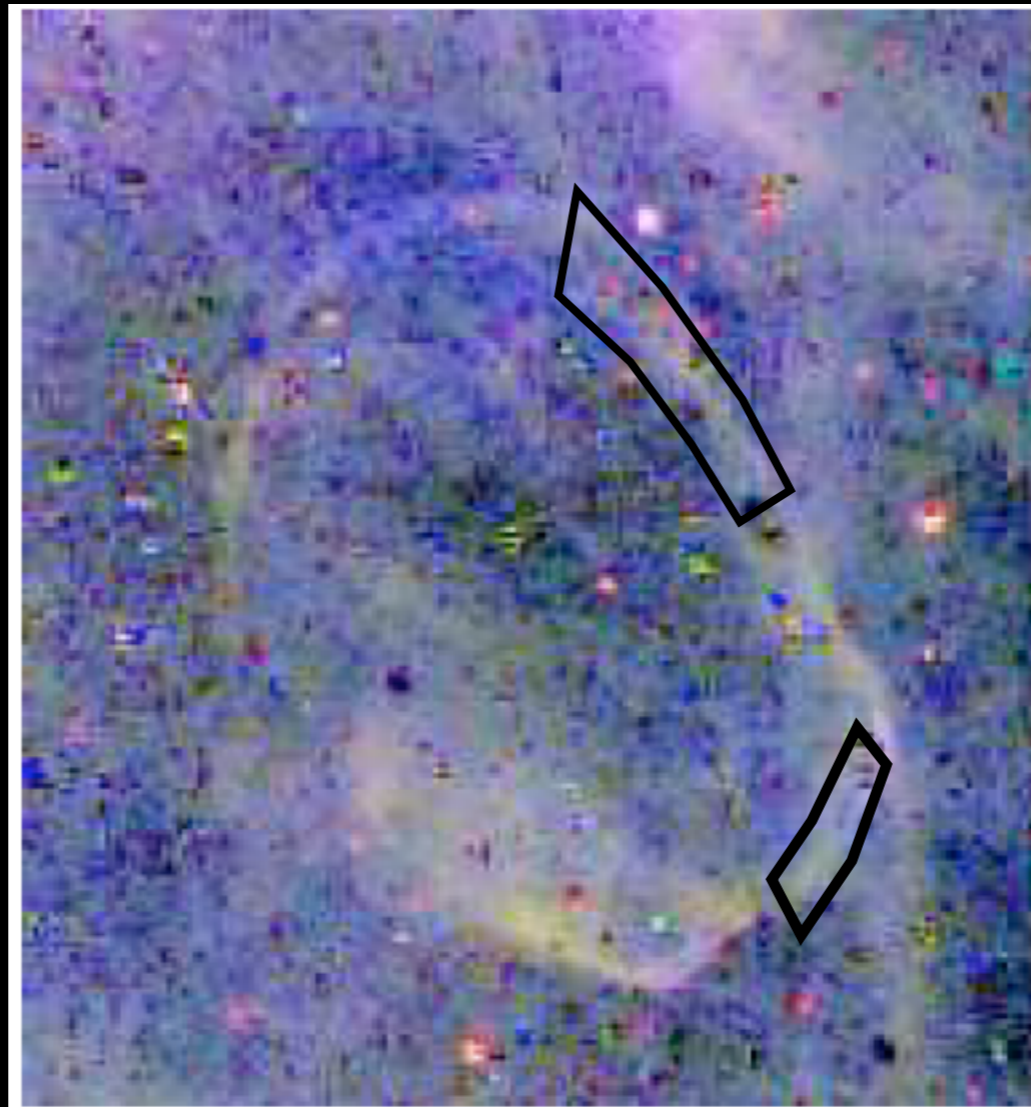
Candidates	[SII]/H α	Comments
IKT 2	0.4	known SNR
HFPK 419	0.56	known SNR
C1	0.65	New SNR
C2	0.37	borderline - extraction?
C3	??	no clear SNR emission
C4	0.41	New SNR - still more reduction
C5	0.2	HII region
C6	0.5	New SNR
C8	0.15	bubble?
C9	0.7	New SNR - still more reduction

NB very preliminary

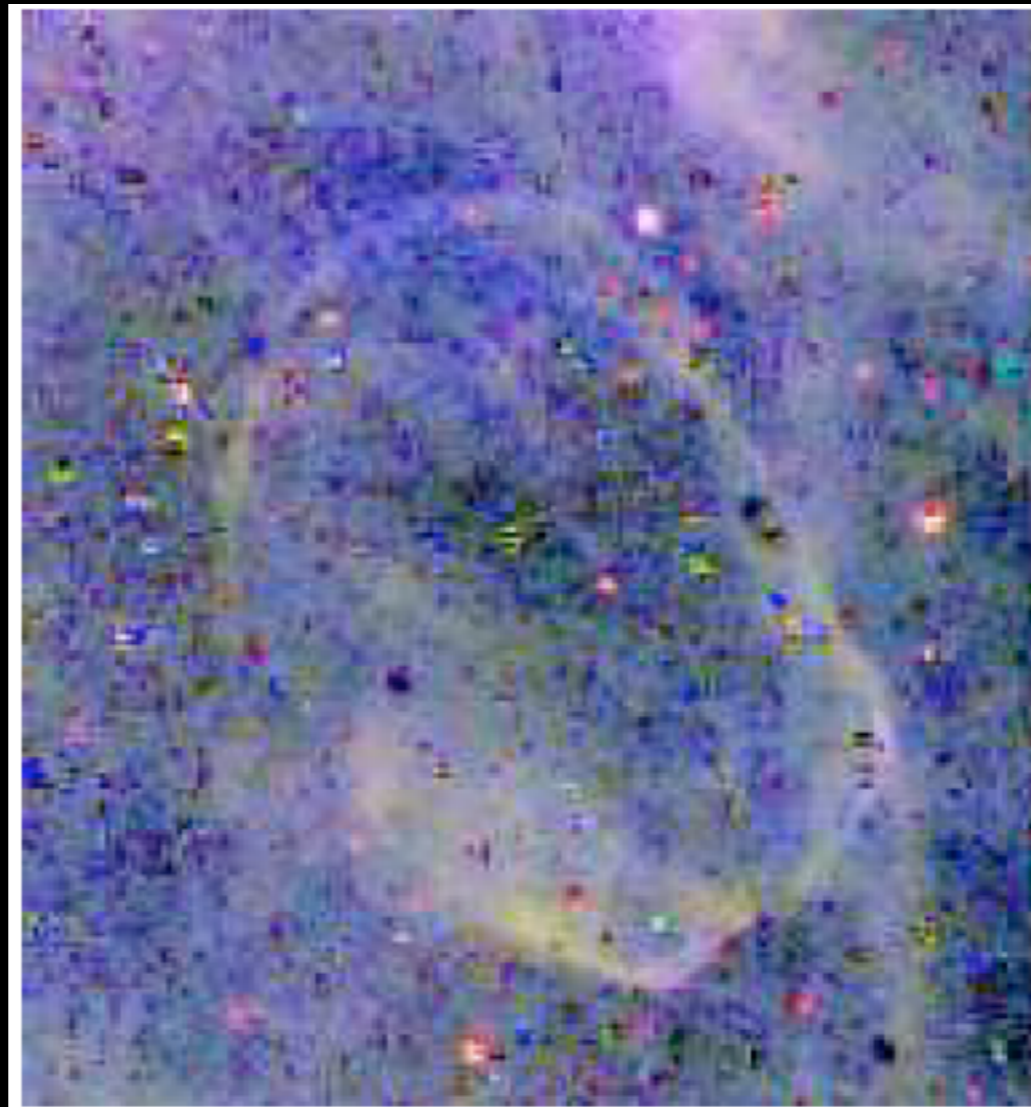
Moving forward: MOS?



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