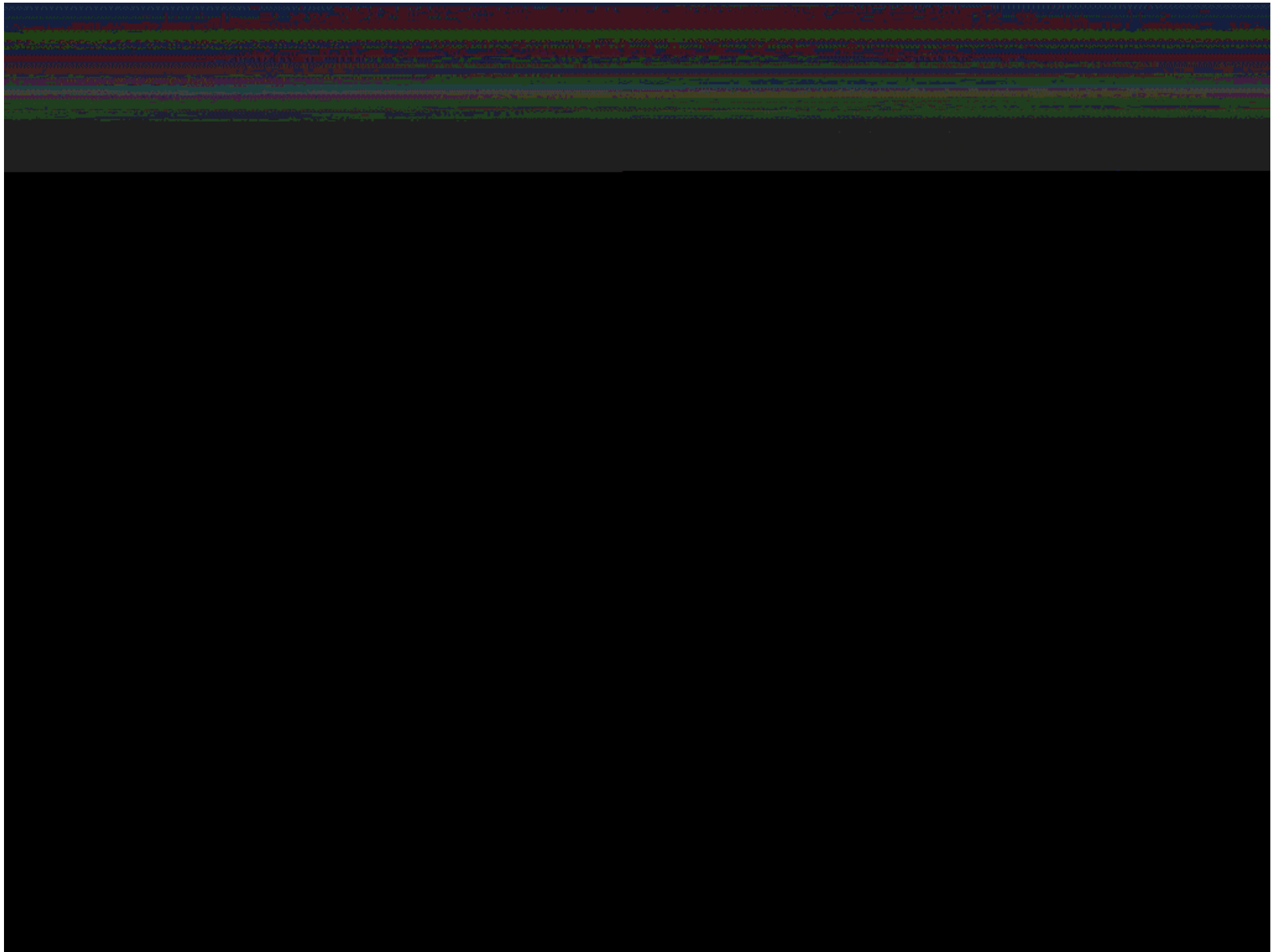


Introduction

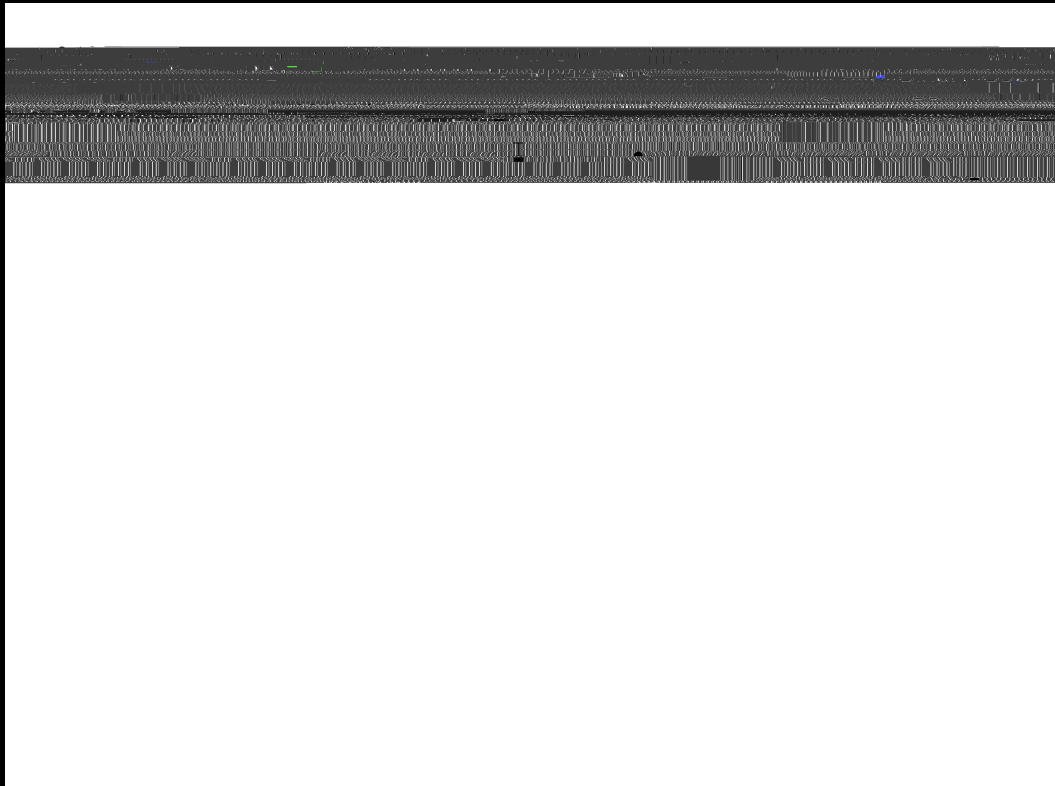


Benchmark brown dwarfs

Evolved benchmarks are usually identified through membership of binary and multiple systems. As such their ages are reliant on the accuracy of the host star(s) in these systems.

Main-sequence

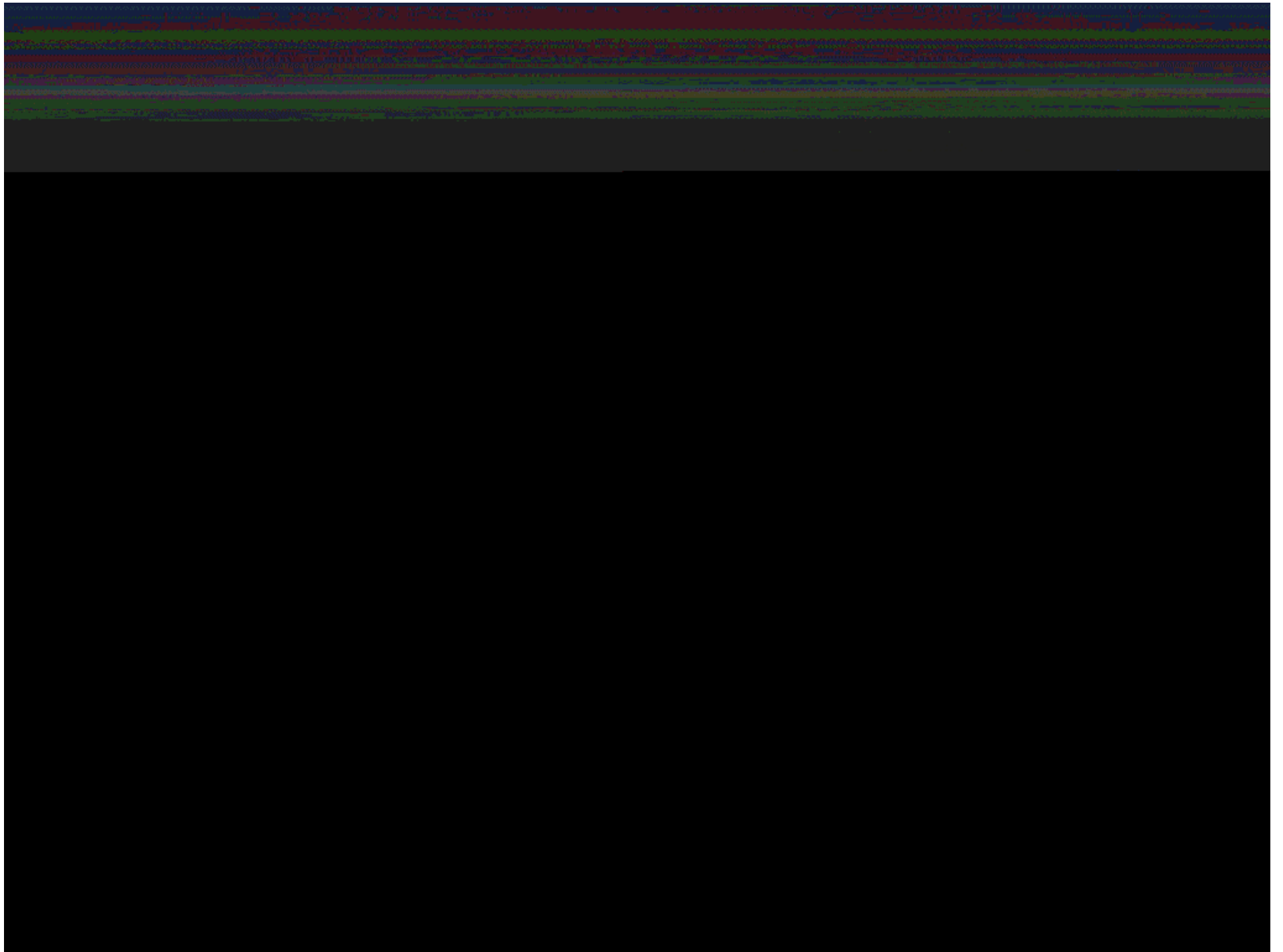
Age benchmark brown dwarfs



The current complement of age benchmark bro2 (h) 0.13dw(a) -0.1 (r) -47. (fs) -0.2 f dag

WD + L dwarf binaries

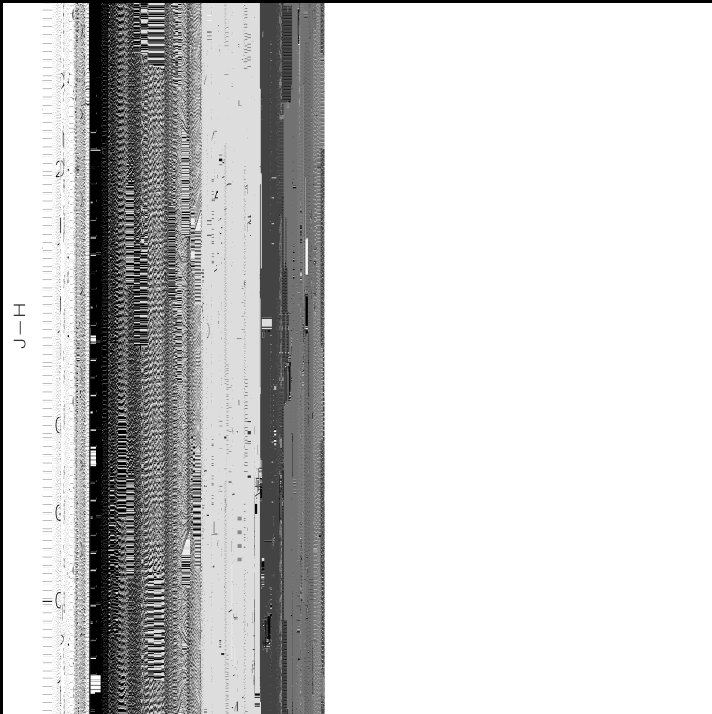




Search for WD+BD binary systems-BD selection

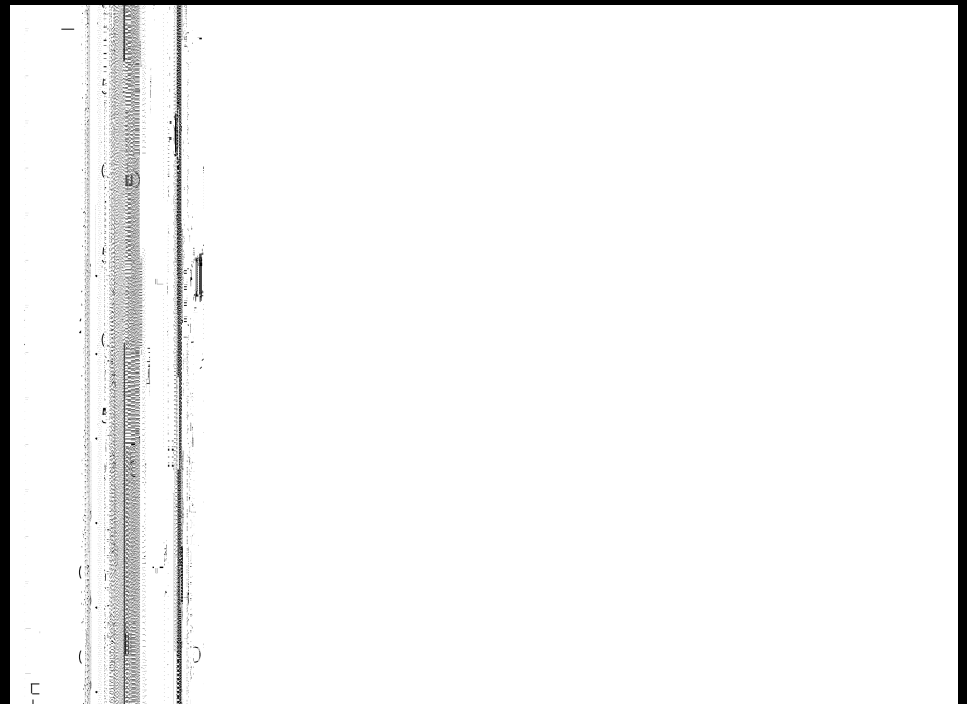
Searched UKIDSS LAS (DR8) and SDSS (DR7) for BD + WD binary systems.

Colour and magnitude selection of L or T dwarfs from UKIDSS.

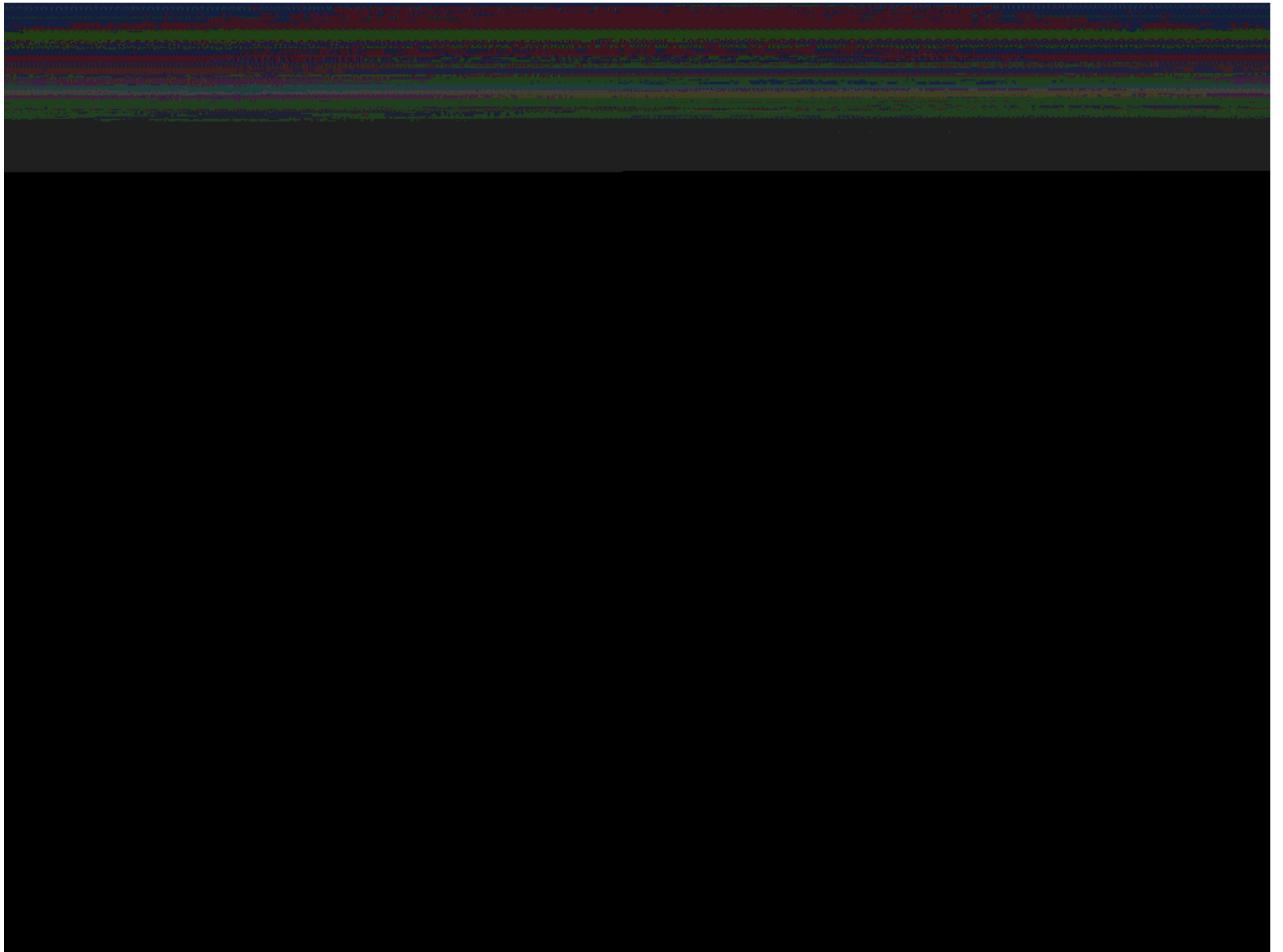


Our search for WD+BD binary systems

5 nights SOAR (SOI/SPARTAN).



A new WD+L dwarf binary system and



Future Work...

Calculate and analyse remaining proper motions and spectra taken of both WD and BD components taken with XSHOOTER.