

The Southern Serendip Project

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The University of Western Sydney Macarthur has attached two 4.2 Million channel spectrometers to two beams of the thirteen beam 21cm cryogenically cooled receiver on the 64m Parkes Radio Telescope in Australia. Called Southern Serendip, it is a piggyback SETI experiment with a 0.6 Hz resolution, a 1.7 sec integration time, and an instantaneous coverage of 2.5MHz on both beams. This is sufficient to cover all expected Doppler shifts of radio beacons transmitted near the neutral HI frequency in our own galaxy. This paper summarises and introduces the project.