

Low cost - 21cm observation on Sun from Kodaikanal Solar Observatory

Traditionally 1420 MHz line emission is used to study the Doppler Spectrum of the 21-cm hyper fine line of interstellar atomic hydrogen. This radiation comes from the transition between the two levels of the hydrogen 1s ground state, slightly split by the interaction between the electron spin and the nuclear spin. We have modified the old dish antenna and the receiver system to study the radiation from Sun at 21 cm at Kodaikanal. The result is compared with the available online resources to compute the thermal emission from Sun (Quiet Sun) at this wavelength. The radio instrumentation and interesting results will be presented.