

DSES Pulsar Observation Report: B2021+51

Date & Time (UTC): 20210918_212315

Run time: 1800 seconds (30 min)

Observers: Dan Layne, Ray Uberecken

Telescope: Deep Space Exploration Society (DSES) 60 ft. dish (18.3 m). Haswell, CO

Feed horn: 1420 Mhz, Single Polarization, Beamwidth = 0.81°

Receiver: USRP B210, Bandwidth = 56 Mhz. Frequency = 1420 Mhz, RF Gain = 36

Computer: System76, 16 core, Ubuntu 20.04

Software: Murmur (planning), GnuRadio (collection), PRESTO (folding and detection)

Source name: B2021+51 (J2022+5154)

Flux density: S1400 = 27 mJy

Source RA, DEC (J2000): $20^h 22^m 49.8^s$; $51^\circ 54' 50.2''$

