

# The 8gr8 Cygnus survey for new pulsars and RRATs

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**ABSTRACT:** We present a survey to search for new pulsars and the recently found Rotating Radio Transients (RRATs) in the Cygnus OB complex. The survey uses the Westerbork Synthesis Radio Telescope in a unique mode which gives it the best sensitivity of any low-frequency wide-area survey. The survey is being carried out at 328 MHz with a bandwidth of 10 MHz and an integration time of about 7000 s. The detection of pulsar candidates follows the conventional procedure of frequency domain searches and acceleration searches for possible binary systems. To detect RRATs we are using an approach similar to that used in the initial discovery. So far we have found a few new pulsars and the routines for the detection of RRATs are starting to be implemented in the standard reduction. We expect to find a few tens of new pulsars and a similar number of RRATs. This will help us to improve our knowledge about the population and properties of the latter poorly known objects as well as provide an improved knowledge of the number of young pulsars associated with the OB complexes in the Cygnus region.