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High Frequency Observations of Radio Pulsars

Due to their steep spectra, radio pulsars are usually observed at lower frequencies. Their observed properties indicate an emission mechanism of coherent nature, although the details of this mechanism are currently not known. The characteristics of pulsars observed at higher energies on the other hand indicate an incoherent emission mechanism. The detection of several pulsars at high frequencies in the last 25 years has led to a new view on pulsars and raised the question if high frequency observations can contribute to a better understanding of the mechanism behind the observed radio emission. In the present talk we want to discuss why such observations are interesting and how further observations with the Green Bank Radio Telescope for instance can contribute to this branch of pulsars studies.