

**ON THE DIFFERENT FORMS OF CONTINUUM RADIO SPECTRA  
OF SUPERNOVA REMNANTS: THEORETICAL FUNDAMENTALS**

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**Abstract.** In this lecture I briefly present the theoretical fundamentals of formation of the supernova remnant (SNR) continuum radio spectra. It represents necessary introduction for the main topic of the lecture: prediction of the different forms (linear or curved in log-log scale) of SNR radio spectra for both young and evolved SNRs. Also, all of these theoretically predicted forms of radio spectra are compared with real spectra obtained from observations. This analysis introduces some characteristic forms of the SNR radio spectra which can be used by radio observers to estimate age and evolutionary status of the new-detected Galactic and especially extragalactic SNRs.