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## The interstellar medium of the edge-on galaxy NGC 5907: new observations in the cm- and mm-range

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The nearby edge-on galaxy NGC 5907 is subject to ongoing investigation since several years. It is a non-interacting and relatively inactive galaxy, classified as Sc. Here we present new observations of this interesting galaxy at several wavelenghts in the radio range:

- Radio continuum emission (including polarization) at  $\lambda\lambda 2.8$  and 20 cm, observed with the Effelsberg 100 m telescope and the Very Large Array, respectively.
- Continuum emission at a wavelength of  $\lambda 1.2 \,\mathrm{mm}$ , observed with the MPIfR 19-channel bolometer installed in the secondary focus of the 30 m telescope on Pico Veleta.
- Line emission from the 12CO(1-0) and (2-1) lines, observed also with the 30 m telescope. First results of these observations are shown. Additionally we discuss the properties of this galaxy in comparison to other edge-on spirals.

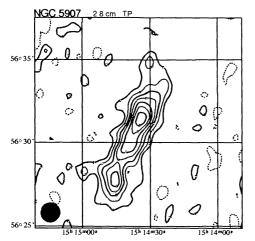


Fig. 1: Radio continuum map of NGC 5907 at  $\lambda 2.8 \,\mathrm{cm}$ 

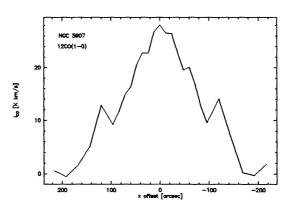


Fig. 2: Radial distribution of the 12CO(1-0) line emission of NGC 5907

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