

## **MICROWAVE SPECTROMETERS FOR REMOTE SOUNDING OF COMETS AND PLANETS**

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The large technical progress of the last years made it possible to design and build microwave spectrometers that can be applied to deep space missions. MIRO, the Microwave Instrument for the Rosetta Orbiter will be the first of this new class of instruments. Future instrumental designs with reduced mass and power consumption and at the same time better functional performances exist already. As an example the development progress of a microwave spectrometer backend, developed for MIRO will be presented and future perspectives will be illustrated.