

MAPS OF CEN A AT 22 GHz AND 44 GHz

C.Tateyama and Z.Abraham

Instituto de Pesquisas Espaciais, CNPq
Brasil

The radio Galaxy Cen A (NGC 5128) was mapped with the Itapetinga radiotelescope at 22 and 44 GHz, with a resolution of 4.1 and 2.1 arc min, respectively. The compact nuclear source appears superimposed to the SW radio lobe at 22 GHz, but is resolved at 44 GHz. The spectra of the NE and SW internal lobes can be fitted by a power law with spectral index of -0.7 covering a wide frequency range (80 MHz to 44 GHz). The central source in the 44 GHz map shows two asymmetries, one extending in the direction of the radio/X-ray jet and the other pointing to the SW side of the obscuration disk in the underlying galaxy.

Z. Abraham and C. Tateyama: Instituto de Pesquisas Espaciais, CNPq, C.P. 515, 12.000 São José dos Campos SP, Brasil.