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The Solar System Outer Planets as secondary calibrators for CMB, results from Planck/LFI

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The spectral energy distribution (SED) at millimetric wavelengths of planets is an important benchmark to inter-calibrate different CMB experiments, to properly calibrate the beam pattern and a source of information on the atmospheric structure of those bodies. Despite their importance, there is a lack of very accurate measures of SED for those bodies. Planck/LFI observed Mars, Jupiter, Saturn, Uranus and Neptune, which where observed from three to eight times during the mission determining, as an example, Tb for Jupiter with an accuracy better than half percent, improving the results currently quoted in literature.

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