

Development of the algorithm of data processing of JEM/SMILES observation

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A new generation of receivers employing sensitive SIS (Superconductor-Insulator-Superconductor) detector technology in the submillimeter region may provide new opportunities for satellite remote sensing measurements. There are no satellite instrument for the atmospheric measurements with SIS detector technology so far. A SIS instrument, named JEM (Japanese Experiment Module)/SMILES (Super-Conductive Sub-Millimeter Limb Emission Sounder), plan to onboard International Space Station in 2008. We have been developed the retrieval code, named SMOCO (SMILES observation retrieval COde), for the data processing as well as error analysis of the JEM/SMILES observation.