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Observation of the upper atmosphere and ionosphere of Venus by Planet-C

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Exploration of the upper atmosphere and the ionosphere of Venus is planned to carry out in Planet-C mission, in addition to observations of the lower atmosphere. Several instruments will be installed for understanding the unresolved problems in these regions on the Planet-C spacecraft, which is in expectation of being launched in 2007. Observation of neutral and charged particles' escape from the planetary atmosphere is one of the main scientific target in the mission, because of the important influence of the escape process on the atmospheric evolution as well as the interest in the particle acceleration process. In this presentation, we discuss the instruments and methodology necessary for understanding of the particle escape process and of quantitative measurement of the escape flux. In addition, the strategic points and the methodology to reveal the above problem as well as many other scientific subjects.