



Consert / Rosetta : status of the experiment

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The primary scientific goal of the CONCERT experiment on the Rosetta / Philae space mission is to investigate the deep interior of the nucleus of comet 67P/Churyumov–Gerasimenko. This will be achieved through the tomography using the 90 MHz electromagnetic signal transmitted from the Orbiter and returned from the Lander. The Orbiter will move all around the comet and then several cuts of the nucleus interior structure will be obtained.

In this poster, the experiment is reviewed: its scientific goals are revisited with corresponding operating modes; the in-time transponder technique is explained and the instrument design is shown. Then the status of the instrument and the preparation of the scientific measurement around the comet are presented.