Starting the first transit survey from space with the CoRoT satellite

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Successfully launched on 27 December 2006 CoRoT started, about one month later, the first photometric survey aimed at detecting planetary transits from space. After a brief description of the instrument and the mission profile, we will present results issued from a first analysis of the data. These preliminary results illustrate the on-flight performances and the detection capabilities of CoRoT. The recent discovery of a hot Uranus around GJ436 suggests the existence of a new family of planets that CoRoT could easily detect. So, we should learn more on these hot Neptunes and the still hypothetical hot terrestrials in a near future.