



In-situ dust measurements with Cassini - Eight years of experience with the Cosmic Dust Analyser

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The Cosmic Dust Analyser (CDA) onboard the Cassini mission measures the properties of micron sized dust particles in the planetary system. The Cosmic Dust Analyser was switched on in 1999 and on its way to Saturn interplanetary and interstellar dust was detected. During Cassini's approach to Jupiter and Saturn nanometre sized grains with speeds above 100 km/s were monitored. In Saturn's system Cassini characterises the E ring with its micron sized water ice particles. Here, we review the reliability and sensitivity of the CDA experiment and we summarise the scientific results.