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A NEO Physical Properties database at SSDC

Content

Within the NEOROCKS EU project (“The NEO Rapid Observation, Characterization and Key Simulations” - SU-SPACE-23-SEC-2019 from the Horizon 2020) in WP5 (Data Management) we are developing a unique **NEO Physical Properties database** for all different data products resulting from NEO observations devoted to physical characterization in order to ensure an efficient online data products dissemination and their storage and availability.

To maximise its science exploitation, the NEOROCKS database will be designed by means of an **EPNCore derived data model ready for the EPN-TAP** service implementation, and thus able to store, maintain and regularly update all different levels of processing, from raw data to derived products beyond the duration of the project as an authoritative source of services and data on NEO physical properties hosted at the Space Science Data Center (SSDC) of the Italian Space Agency (ASI).

The NEO orbital elements will be imported and regularly updated with the ESA NEO Coordination Center (CC) data source, while the NEO physical properties will be initially imported from the ESA NEO CC, which collected since 2013 the legacy of the European Asteroid Research Node (EARN), and subsequently filled by observers using the NEOROCKS technical web portal.

Preferred talk time

Session 17, before 21 UTC

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