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THE NEO PHYSICAL PROPERTIES DATABASE: FUTURE PERSPECTIVES OF THE NEOROCS EU PROJECT

I. Di Pietro⁽¹⁾, E. Perozzi⁽¹⁾, A. Mediavilla⁽²⁾, E. Dotto⁽³⁾, A. Zinzi^(1,4), M. Giardino^(1,4), A. Giunta⁽¹⁾ and the NEOROCS team *

⁽¹⁾ ASI – Agenzia Spaziale Italiana, I (ilaria.dipietro@asi.it)

⁽²⁾ DEIMOS Space, S

⁽³⁾ INAF – Osservatorio Astronomico di Roma, I

⁽⁴⁾ SSSC – Space Science Data Center, ASI, I

***The full list of authors appears at the end of the abstract**

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ABSTRACT

The EU funded NEOROCS project (Near-Earth Objects Rapid Observation, Characterization and Key Simulations) (GA n. 870403) focuses on the development and the deployment of a Near-Earth Objects physical properties database as its main outcome. Following the well-defined IVOA (International Virtual Observatory Alliance) standards, a data model has been designed in order to be compliant with existing virtual observatory (VO) services. It is entailed the ability to store, maintain, give access and be regularly updated at all different levels of processing, from raw data to final products. The database is integrated within the project Technical Web Portal and currently available to the only consortium partners. The final goal is to let the scientific community - involved in Near-Earth Objects physical characterization - with a facility able to support and maximize the scientific exploitation (and return) of their data. The access to external users will be provided after the forthcoming migration of both portal and database within Space Science

Data Center of the Italian Space Agency (ASI-SSDC) (<https://www.ssdc.asi.it/>), a permanent infrastructure devoted to space-data management. This relocation will extend the maintenance and the operability of the database, beyond the duration of the NEOROCKS project, meeting one of the major goals of the EU Horizon 2020 Programme.

*NEOROCKS Team: M. Banaszkiewicz, S. Banchi, M.A. Barucci, F. Bernardi, M. Birlan, B. Carry, A. Cellino, J. De Leon, M. Lazzarin, E. Mazzotta Epifani, D. Perna, P. Pravec, C. Snodgrass, C. Teodorescu, S. Anghel, A. Bertolucci, F. Calderini, F. Colas, A. Del Vigna, A. Dell'Oro, A. Di Cecco, L. Dimare, P. Fatka, S. Fornasier, E. Frattin, P. Frosini, M. Fulchignoni, R. Gabryszewski, T. Hromakina, J. Huntingford, S. Ieva, J.P. Kotlarz, F. La Forgia, J. Licandro, H. Medeiros, F. Merlin, J. Nomen Torres, V. Petropoulou, F. Pina, G. Polenta, M. Popescu, A. Rozek, P. Scheirich, A. Sergeev, A. Sonka, G.B. Valsecchi, P. Wajer.

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