

Solar System Survey



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Overview

How many new Solar System objects will be detected?

“It’s very exciting – we expect that millions of new solar system objects will be detected and most of these will be picked up in the first few years of sky survey.” The team’s simulations show that Rubin will map: 127,000 near-Earth objects — asteroids and comets whose orbits cross or approach Earth.

What is the LSST & the Rubin Observatory?

The LSST will generate the largest catalog of known Solar System bodies, discovering and monitoring huge numbers of small Solar System objects over the next ten-years. The Rubin Observatory is in the final stages of construction and commissioning. The LSST is expected to begin later this year when Rubin Observatory begins science operations.

What are Hyperion and NEO Surveyor?

Hyperion is the largest of Saturn's irregularly shaped moons. NEO Surveyor is a mission that will hunt asteroids and comets that are potential hazards to Earth, with a launch no earlier than September 2027. Eyes of the Solar System uses data and images from NASA missions to give you a simulated view of our solar system.

Could new Solar System objects be detected by a new facility?

Sorcha.space/University of Washington A group of astronomers from across the globe, including a team from the University of Washington and led by Queen’s University Belfast, have revealed new research showing that millions of new solar system objects will be detected by a brand-new facility, which is expected to come online later this year.

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Inventorying the Solar System is one of the survey's four key science drivers The Vera C. Rubin Observatory is currently finishing ...

The solar system has one star, eight planets, five dwarf planets, at least 290 moons, more than 1.3 million asteroids, and about 3,900 comets.

Solar System Geometry Survey The similarity between an electric generator with its carefully placed magnets and the sun with its ever-changing planets is intriguing. In the ...

The potential capacity of Gaia to provide an outstanding survey of Solar System objects (SSO) became clear already during the preparation studies (Hestroer et al.1999;Mignard 2002). ...

Sorcha is a solar system survey simulator built for the Vera C. Rubin Observatory's Legacy Survey of Space and Time (LSST) and future large-scale wide-field surveys. Over the ten-year ...

The third data release by the Gaia mission of the European Space (DR3) is the first release to provide the community with a large sample of observations for more than 150 ...

The upcoming Legacy Survey of Space and Time (LSST) at the Vera C. Rubin Observatory is expected to revolutionize solar system astronomy. Unprecedented in scale, this ...

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Past solar system surveys typically observed with a single filter. "With the LSST catalog of solar system objects, our work shows that it will be like going from black-and-white ...

Inventorizing the Solar System is one of the survey's four key science drivers The Vera C. Rubin Observatory is currently finishing construction on Cerro Pachón, a mountain top ...

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