

Accepted Manuscript

The Large Synoptic Survey Telescope as a Near-Earth Object Discovery Machine

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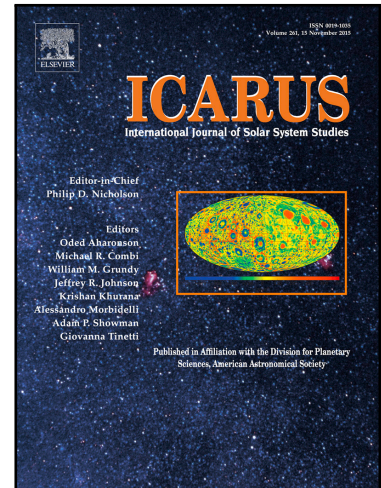
PII: S0019-1035(17)30143-4
DOI: [10.1016/j.icarus.2017.11.033](https://doi.org/10.1016/j.icarus.2017.11.033)
Reference: YICAR 12717

To appear in: *Icarus*

Received date: 15 February 2017
Revised date: 20 June 2017
Accepted date: 27 November 2017

Please cite this article as: R. Lynne Jones, Colin T. Slater, Joachim Moeyens, Lori Allen, Tim Axelrod, Kem Cook, Željko Ivezić, Mario Jurić, Jonathan Myers, Catherine E. Petry, The Large Synoptic Survey Telescope as a Near-Earth Object Discovery Machine, *Icarus* (2017), doi: [10.1016/j.icarus.2017.11.033](https://doi.org/10.1016/j.icarus.2017.11.033)

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Highlights

- We evaluate the end-to-end capability of LSST to discover Near Earth Objects.
- We find a reasonable expectation of <450 false detections/deg² from difference imaging.
- We demonstrate the capabilities of the LSST Moving Object Processing System.
- We find LSST alone could detect 66% of PHAs with $H < 22$ in the baseline configuration.
- Including other surveys and enhancing LSST operations, PHA completeness rises to 86%.

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