














## The Vera C. Rubin Observatory Data Preview 2

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### ABSTRACT

We present Rubin Data Preview 2 (DP2), the second data preview from the NSF-DOE Vera C. Rubin Observatory,

*Keywords:* Rubin Observatory - LSST

1. INTRODUCTION
2. COMMISSIONING WITH LSSTCAM
3. OVERVIEW OF THE CONTENTS OF RUBIN DP2
4. DATA RELEASE PROCESSING
5. PERFORMANCE CHARACTERIZATION AND KNOWN ISSUES
6. RUBIN SCIENCE PLATFORM
7. SUPPORT FOR COMMUNITY SCIENCE
8. SUMMARY AND FUTURE RELEASES

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*Facilities:* Rubin:Simonyi (LSSTComCam), Rubin:USDAC

*Software:* Rubin Data Butler (Jenness et al. 2022), LSST Science Pipelines (Rubin Observatory Science Pipelines Developers 2025), LSST Feature Based Scheduler v3.0 (Yoachim et al. 2024; Naghib et al. 2019) Astropy (Astropy Collaboration et al. 2013, 2018, 2022) PIFF (Jarvis et al. 2021), GBDES (Bernstein 2022),

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60 Qserv (Wang et al. 2011; Mueller et al. 2023), Slurm,  
61 HTCondor, CVMFS, FTS3, ESNNet

62 APPENDIX

63 Glossary

64 **Association of Universities for Research in Astronomy:**

65 consortium of US institutions and international  
66 affiliates that operates world-class astronomical  
67 observatories, AURA is the legal entity respon-  
68 sible for managing what it calls independent  
69 operating Centers, including LSST, under respec-  
70 tive cooperative agreements with the National  
71 Science Foundation. AURA assumes fiducial

72 responsibility for the funds provided through  
73 those cooperative agreements. AURA also is the  
74 legal owner of the AURA Observatory properties  
75 in Chile.

76 **AURA:** Association of Universities for Research in As-  
77 tronomy.

78 **DP2:** Data Preview 2.

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