

TURBO-GP: Removing atmospheric turbulence from the Vera C. Rubin Observatory Astrometry through scalable Gaussian Processes.

PIERRE-FRANÇOIS LÉGET ¹

¹*Department of Astrophysical Sciences, Princeton University, Princeton, NJ 08544, USA*

(Dated: September 3, 2026)

ABSTRACT

Description of the application of TURbulence Removal By fourier-Optimized Gaussian Process on DP2 data set and compare performance to default GP used in DP2.

1. INTRODUCTION

Put your paper here.

This is the Rubin Observatory overview paper: [Ž. Ivezić et al. \(2019\)](#).

ACKNOWLEDGMENTS

This material is based upon work supported in part by the National Science Foundation through Cooperative Agreements AST-1258333 and AST-2241526 and Cooperative Support Agreements AST-1202910 and AST-2211468 managed by the Association of Universities for Research in Astronomy (AURA), and the Department of Energy under Contract No. DE-AC02-76SF00515 with the SLAC National Accelerator Laboratory managed by Stanford University. Additional Rubin Observatory funding comes from private donations, grants to universities, and in-kind support from LSST-DA Institutional Members.

Facility: Rubin

Software: LSST Science Pipelines

REFERENCES

Ivezić, Ž., Kahn, S. M., Tyson, J. A.,
et al. 2019, ApJ, 873, 111,
doi: [10.3847/1538-4357/ab042c](https://doi.org/10.3847/1538-4357/ab042c)