



Vera C. Rubin Observatory  
Systems Engineering

# CBP Pointing and Ghosting Simulation Notebook

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SITCOMTN-134

Latest Revision: 2024-07-19



## Abstract

This notebook performs raytracing through the CBP and LSST and computes ghosting and transmission profiles. It has three main uses: 1. Returns CBP and LSST alt/az pointings for a given positioning of the CBP within the observatory dome and desired CBP pointing on the M1 pupil. 2. Raytracing for any CBP mask, returning final beam positions on the focal plane of LSSTcam and Comcam. 3. Ghosting analysis: raytracing returns realistic estimations of ghosting along with transmission values for the CBP across the wavelength spectrum.

## Change Record

Version	Date	Description	Owner name
1	YYYY-MM-DD	Unreleased.	Kane Sjoberg

*Document source location:* <https://github.com/lstt-sitcom/sitcomtn-134>

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## A References

## B Acronyms

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Acronym	Description
DM	Data Management

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