



Vera C. Rubin Observatory
Data Management

Measurement of Faint DIASources in LSST Prompt Processing

Eric Bellm, Melissa Graham, Leanne Guy and the DM System Science
Team

DMTN-228

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Abstract

The DMS will have the ability to detect and measure a limited number of DIASources below the nominal 5σ detection threshold that satisfy additional criteria.

Change Record

Version	Date	Description	Owner name
1	2022-XX-XX	Unreleased.	Leanne Guy

Document source location: <https://github.com/lst-dm/dmtn-228>

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Measurement of Faint DIASources in LSST Prompt Processing

1 Introduction

2 Use Cases

Here we present the motivating use cases for the measurement of sub-threshold DIASources.

2.1 Quality Assessment

2.2 Strong Lensing

2.3 Target of Opportunity

2.4 Potentially Hazardous Asteroids

3 Technical Consideration

4 Community Proposal Process

5 Timeline

A References

B Acronyms

Acronym	Description
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DM	Data Management
DMS	Data Management Subsystem
DMTN	DM Technical Note
LSST	Legacy Survey of Space and Time (formerly Large Synoptic Survey Telescope)
