이학박사 학위논문

On the Physical Behavior of Fine Particles on Airless Bodies

대기 없는 천체 위에서 고운 입자의 물리적 행동에 관하여

2023년 5월

서울대학교 대학원 물리·천문학부 Yoonsoo P. Bach

On the Physical Behavior of Fine Particles on Airless Bodies

지도교수 Masateru Ishiguro

이 논문을 이학박사 학위논문으로 제출함 2023년 5월

> 서울대학교 대학원 물리·천문학부 Yoonsoo P. Bach

Yoonsoo P. Bach의 박사 학위논문을 인준함 2023년 5월

위원	실 장	(인)
부위원장		(인)
위	원	(인)
위	원	(인)
위	원	(인)

Abstract

abstract contents abstract con

abstract contents abstract con

abstract contents tents abstract contents tents abstract contents tents abstract contents tents abstract contents tents abstract contents abstract contents abstract contents abstract contents

abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents

abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents abstract contents tents abstract contents tents abstract contents tents abstract contents tents abstract contents tents abstract contents abstract contents

Keywords: Asteroids, Thermal modeling, Regolith, Radiation Pressure, Polarimetry—Optical, Polarimetry—Infrared

Student Number: 2000-12345

Contents

A	bstract	iii	
List of Figures			
Li	st of Tables	vii	
1	Introduction	1	
2	2 Thermophysical Modeling		
3	Polarimetry	3	
4	Summary and Future Works	4	
	4.1 Summary	4	
	4.2 Future Work	4	
Bi	Bibliography		
\mathbf{A}	bstract	3	

List of Figures

List of Tables

Introduction

This is the introduction

Thermophysical Modeling

This chapter will describe the thermophysical modeling (TPM)

Polarimetry

This chapter will describe the polarimetric observation, experiments, and applications. A test long text. A test long text.

Lyot (1929); Dollfus (1955); Geake et al. (1970); Geake and Dollfus (1986) Inside the paretheses (Cellino et al., 2016)

Summary and Future Works

4.1 Summary

Summary of this dissertaiton.

4.2 Future Work

Some possible future works:

Bibliography

A. Cellino, E. Ammannito, G. Magni, R. Gil-Hutton, E. F. Tedesco, I. N. Belskaya, M. C. De Sanctis, S. Schröder, F. Preusker, and A. Manara. The Dawn exploration of (4) Vesta as the 'ground truth' to interpret asteroid polarimetry. *Mon. Not. R. Astron. Soc.*, 456(1):248–262, February 2016. doi: 10.1093/mnras/stv2683.

Audouin Charles Dollfus. PhD thesis, University of Paris (to 1969), France, January 1955.

- J. E. Geake and A. Dollfus. Planetary surface texture and albedo from parameter plots of optical polarization data. *Mon. Not. R. Astron. Soc.*, 218:75–91, January 1986. doi: 10.1093/mn-ras/218.1.75.
- J. E. Geake, A. Dollfus, G. F. J. Garlick, W. Lamb, G. Walker, G. A. Steigmann, and C. Titulaer. Luminescence, electron paramagnetic resonance and optical properties of lunar material from Apollo 11. *Geochim. Cosmochim. Acta Suppl.*, 1:2127, January 1970.
- Bernard Lyot. Recherches sur la polarisation de la lumière des planètes et de quelques substances terrestresRecherches sur la polarisation de la lumière des planètes et de quelques substances terrestresResearch on polarization of light from planets and some terrestrial substances;. PhD thesis, University of Paris (to 1969), France, January 1929.

초록

한국어 초록이 반드시 포함되어야 함 (For the dissertation written in non-Korean language, Korean abstract MUST be included)

주요어: 소행성, 열적 모델링, 표토, 복사압, 편광—광학, 편광—적외선

학 번: 2000-12345

Acknowledgement

Acknowldegements go here