Diffraction Shader

Michael Single

13. Oktober 2013

Inhaltsverzeichnis

1	Introduction		
	1.1	Motivation	3
	1.2	Related Work	3
	1.3	Thesis Outline	3
2	O O		
	2.1	The Effect Of Diffraction	4
	2.2	BRDF - Spectral Rendering	4
	2.3	Stams derivation	4
	2.4	Taylor Series Approximation	4
	2.5	Sampling: Gaussian Window	4
	2.6	Our derivation	4
3	Implementation		
	3.1	Setup	5
	3.2	Precomputations in Matlab	5
	3.3	jrtr Framework	5
	3.4	GLSL Diffraction Shader	5
4			
	4.1	Diffraction Grating	6
	4.2	Snake Skin Parameters	6
5	Res	ults	7
6	Conclusion		
	6.1	Further Work	8

1 Introduction

1.1 Motivation

effect of diffraction, stam, genf, rendering snake skin

1.2 Related Work

see papaer listing

1.3 Thesis Outline

describe what is which chapter

2 Theoretical Background

- 2.1 The Effect Of Diffraction
- 2.2 BRDF Spectral Rendering
- 2.3 Stams derivation
- 2.4 Taylor Series Approximation
- 2.5 Sampling: Gaussian Window
- 2.6 Our derivation

- 3 Implementation
- 3.1 Setup
- 3.2 Precomputations in Matlab
- 3.3 jrtr Framework
- 3.4 GLSL Diffraction Shader

- 4 Data Acquisition and Evaluation
- 4.1 Diffraction Grating
- 4.2 Snake Skin Parameters

5 Results

- 6 Conclusion
- 6.1 Further Work