Notes on p-adic analysis

Stanley Li

February 19, 2023

Contents

1	Foundations and perspectives	1
	1.1 \mathbb{Q}_p and \mathbb{Z}_p and their properties	1
	1.2 Computations	1
2	Some topological algebra	1
3	p-adic functions and power series	1
1	Foundations and perspectives	
1.	$1 \mathbb{Q}_p ext{ and } \mathbb{Z}_p ext{ and their properties}$	
Ele	ementary description	
Pr	rojective limits and Hensel's lemma	
1.3	2 Computations	
2	Some topological algebra	
3	p-adic functions and power series	