# Contents

Introduction 1

1 Schauder frames in locally convex spaces 5

1.1 Definition . . . . . 5
1.2 Perturbation results . . . . . 11
1.3 Duality of Schauder frames. . . . . 13
1.4 Unconditional Schauder frames . . . . . 21
1.5 Examples. . . . . 28

2 Frames in locally convex spaces 33

2.1 Definition . . . . . 33
2.2 General results . . . . . 34
2.3 Λ-frames in $(LB)$-spaces. . . . . 43
2.4 Examples. . . . . 48
2.4.1 Weighted spaces of holomorphic functions . . . . . 48
2.4.2 The Hörmander algebras . . . . . 53

3 Appendix 61

Appendix 61

Bibliography 69