

CONTENTS

1	INTRODUCTION.....	5
1.1	Problem formulation	5
1.2	Laser Doppler velocity meter (LDV)	6
1.3	Spatial Filtering Method (SFM).....	6
1.4	Résumé	8
1.5	Aims of the dissertation	8
2	ADAPTIVE SPATIAL FILTER PROPOSAL.....	9
2.1	Mathematical description of the signal generation process.....	9
2.2	Spatial filter properties.....	10
2.3	Surface and its analysis and description	12
2.4	Criteria for periodic structure suppression.....	12
2.5	Improving the spatial filtering method	14
3	PRACTICAL TESTS AND MEASUREMENTS.....	18
4	CONCLUSION	20
	REFERENCES.....	23
	CURRICULUM VITAE	28
	ABSTRACT.....	29