

TABLE OF CONTENTS

I -- INTRODUCTION.....	5
II - COSMOLOGICAL EQUATIONS.....	9
II.1 USING NEWTON'S LAW.....	10
II.2 USING EINSTEIN'S EQUATIONS.....	13
III – CONSTRUCTING LAGRANGIAN AND HAMILTONIAN USING ONE TIME INDEPENDENT CONSTANT OF MOTION.....	20
III.1 CONSTRUCTION OF HAMILTONIAN STRUCTURE.....	21
III.2 CONSTRUCTION OF LAGRANGIAN STRUCTURE.....	22
III.3 APPLYING APPROACH TO COSMOLOGICAL EQUATIONS.....	26
IV – CONSTRUCTING LAGRANGIAN USING THE METHOD OF JACOBI LAST MULTIPLIER(JLM)	30
IV.1 FROM JLM TO LAGRANGIAN.....	31
IV.2 APPLYING APPROACH TO COSMOLOGICAL EQUATIONS.....	34
V -- CONCLUSIONS.....	36
VI -- REFERENCES.....	37

