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## **Convex Hamiltonian Energy Surfaces and Their Periodic Trajectories**

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**Abstract.** In this paper we introduce symplectic invariants for convex Hamiltonian energy surfaces and their periodic trajectories and show that these quentities satisfy several nontrivial relations. In particular we show that they can be used to prove multiplicity results for the number of periodic trajectories.

## **Table of Contents**

| I.   | Introduction and Statement of the Main Results                 | 0 |
|------|--|---|
|      | 1. Dynamical and Geometrical Formulation of the Problem        | 0 |
|      | 2. The Index Interval of an Energy Surface and Torsion Indices |   |
|      | for Its Hamiltonian Trajectories                               | 2 |
| II.  | Variational Set Up   | 7 |
|      | 1. Critical Point Theory                                       | 7 |
|      | 2. A Finite Dimensional Reduction                              | 2 |
|      | 3. Critical Points with Prescribed Formal Index                | 3 |
|      | 4. The Index Interval  |   |
| III. | Index Sequence and Torsion at a Hamiltonian Trajectory         | 3 |
|      | 1. Index Sequence and Winding Number                           |   |
|      | 2. Computation of Total and Mean Torsion                       |   |
| IV.  | Proof of the Main Results                                      |   |
|      | 1. Two Basic Propositions                                      |   |
|      | 2. Proof of the Main Theorems                                  |   |
| Ref  | erences  |   |
|      |  |   |

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