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Volume 43, Number 1, Pages 43-73 S 0273-0979(05)01085-2 Article electronically published on November 22, 2005 NEW METHODS IN CELESTIAL MECHANICS AND MISSION DESIGN JERROLD E MARSDEN AND SHANE D ROSS To Henri Poincaré on the 150th anniversary of his birth

Abstract The title of this paper is inspired by the work of Poincaré [1890,

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of celestial mechanics, connected with the requirements of space exploration, created new interest in the methods and problems of analytical dynamics The connections between classical mechanics and other areas of mathematics and physics are many and varied The appendices to this book are devoted to a few of these connections

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Hamiltonian Systems and Celestial Mechanics July 29–August 2, 2013 Jacques F´ejoz Only references the most directly related to the contents of the course are cited below 1 The N-body problem and its symmetries The book [4] is an invaluable reference for the N-body problem The article [13] is a short, introductory version to the topic

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CHAPTER 14 HAMILTONIAN MECHANICS 141 Introduction The hamiltonian equations of motion are of deep theoretical interest Having established that, I am bound to say that I have not been able to think of a problem in classical mechanics that I can solve more easily by hamiltonian methods than by newtonian or lagrangian methods