

## CONTENTS TO VOLUME 87

*Vol. 87 No. 1 1999*

SIRKO MOLAU, JÜRGEN RENDTEL and LUIS RAMON BELLOT-RUBIO / Video Observations of Leonids 1999	1–10
A. J. R. PRENTICE / Origin, Bulk Chemical Composition and Physical Structure of the Galilean Satellites of Jupiter: A Post-Galileo Analysis	11–55
Information for Authors	57–58

*Vol. 87 No. 2 1999*

R. P. PANDEY, K. M. SINGH and R. S. PANDEY / A Theoretical Study of the Whistler Mode Instability at the Uranian Bow Shock	59–71
FEDERICO MANZINI, ROBERTO CRIPPA, VIRGINIO OLDANI and CESARE GUAITA / Comet Hale–Bopp Shells Expansion: A CCD Study	73–85
TELEMACHUS J. KALVOURIDIS / The Effect of Radiation Pressure on the Particle Dynamics in Ring-Type <i>N</i> -Body Configurations	87–102
PETER N. SLEEP / Orbital Migration of Giant Planets: Using Numerical Integration to Investigate Consequences for Other Bodies	103–115
Information for Authors	117–118

*Vol. 87 No. 3 1999*

### Special Issue

#### THE SCIENTIFIC CASE FOR HUMAN SPACEFLIGHT

*Proceedings of a Symposium held in Cambridge on Thursday 5 April, 2001, as part of the UK National Astronomy Meeting, to Commemorate the 40th Anniversary of Human Spaceflight*

*Guest Editors*

I. A. CRAWFORD and S. K. DUNKIN

I. A. CRAWFORD and S. K. DUNKIN / Introduction: The Scientific Case for Human Spaceflight	119
KEVIN FONG / Life in Space: An Introduction to Space Life Sciences and the International Space Station	121–126
OLIVIER MINSTER, EWALD KUFNER, JORGE VAGO and DAVID JARVIS / ESA Microgravity Research Activities in the Field of Physical Sciences and Applications	127–147



*Earth, Moon and Planets* **87**: 235–236, 2001.

ARVIND PARMAR / High-Energy Astronomy from the International Space Station	149–157
PAUL D. SPUDIS / The Case for Renewed Human Exploration of the Moon	159–171
ALEX ELLERY / A Robotics Perspective on Human Spaceflight	173–190
JULIAN A. HISCOX / An Overview of the Origin of Life: The Case for Biological Prospecting on Mars	191–212
ANDREW J. COATES / Limited by Cost: The Case against Humans in the Scientific Exploration of Space	213–219
I. A. CRAWFORD / The Scientific Case for a Human Spaceflight Infrastructure	221–231
Author Index	233
Volume Contents	235–236
Instructions for Authors	237–242