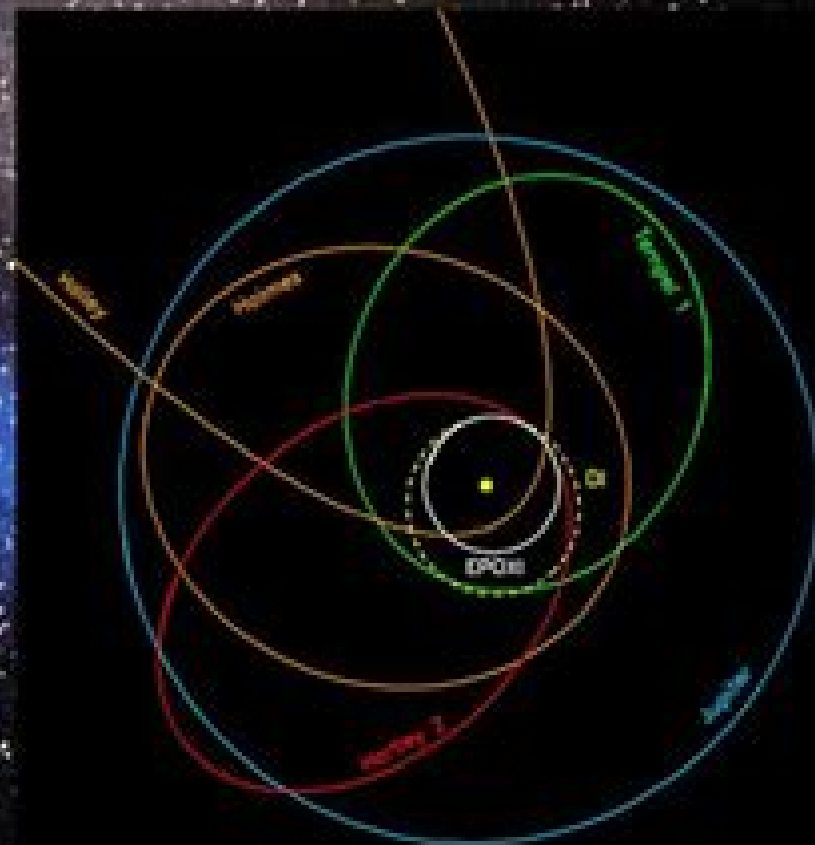


Short period comets

- Orbital periods
- Time scale
- Human history
- 200 years or less



Long Term Evolution Of Short Period Comets

**S.V.M. Clube, Shin Yabushita, Jacques
Henrard**

A decorative graphic element consisting of a red circular shape with a white center, partially obscured by a white rectangular bar that extends from the left edge of the slide. The red shape is positioned to the right of the authors' names.

Long Term Evolution Of Short Period Comets:

Long-term Evolution of Short-period Comets Andrea Carusi, 1985 *Long Term Evolution of Planetary Systems* Rudolf Dvorak, Jacques Henrard, 2012-12-06 Proceedings of the Alexander von Humboldt Colloquium on Celestial Mechanics held in Ramsau Austria March 13 19 1988 *Comets And Their Origin* Uwe Meierhenrich, 2015-01-30 Divided into two parts the first four chapters of *Comets and their Origin* refer to comets and their formation in general describing cometary missions comet remote observations astrochemistry artificial comets and the chirality phenomenon The second part covers the cometary ROSETTA mission its launch journey scientific objectives and instrumentations as well as the landing scenario on a cometary nucleus Along the way the author presents general questions concerning the origin of terrestrial water and the molecular beginnings of life on Earth as well as how the instruments used on a space mission like ROSETTA can help answer them The text concludes with a chapter on what scientists expect from the ROSETTA mission and how its data will influence our life on Earth As a result the author elucidates highly topical and fascinating knowledge to scientists and students of various scientific backgrounds allowing them to work with ROSETTA's data *Dynamics of Comets: Their Origin and Evolution* A. Carusi, Giovanni B. Valsecchi, 2012-12-06 Proceedings of the 83rd Colloquium of the International Astronomical Union held in Rome Italy June 11 15 1984 *Introduction to Comets* John C. Brandt, Robert D. Chapman, 2004-03-11 We have now reached an exciting time in cometary research With several missions launched or about to be launched in the near future cometary research is rapidly being driven forward This book describes the wealth of information known prior to the return of Halley's comet and the new information discovered since then It presents material on important background topics including observational techniques plasma physics celestial mechanics the solar wind and cosmogony The science of comets is described in order of its discovery from tail phenomena to coma morphology through to the most recent findings from space missions The relationship between comets and asteroids is discussed and future space missions to investigate comets are described This comprehensive text is a complete and up to date treatment of the subject suitable for graduate and advanced undergraduate students of astronomy and planetary science *Comets II* Michel C. Festou, H. Uwe Keller, Harold A. Weaver, 2004-11-01 The study of comets is a field that has seen tremendous advances in recent years far surpassing the knowledge reflected in the original *Comets* volume published as part of the Space Science Series in 1982 This new volume with more than seventy contributing authors represents the first complete overview of comet science in more than a decade and contains the most extensive collection of knowledge yet assembled in the field *Comets II* situates comet science in the global context of astrophysics for the first time by beginning with a series of chapters that describe the connection between stars and planets It continues with a presentation of the formation and evolution of planetary systems enabling the reader to clearly see the key role played in our own solar system by the icy planetesimals that were the seeds of the giant planets and transneptunian objects The book presents the key results obtained during the 1990s in particular those collected during the

apparition of the exceptional comets C Hyakutake and C Hale Bopp in 1996 1997 The latest results obtained from the in situ exploration of comets P Borrelly and P Wild 2 are also discussed in detail Each topic of is designed to be accessible to students or young researchers looking for basic yet detailed complete and accurate information on comet science With its emphasis on the origin of theories and the future of research Comets II will enable scientists to make connections across disciplinary boundaries and will set the stage for discovery and new understanding in the coming years

Catalogue of Short-period Comets Nikolai Alekseevich Beliaev, 1986

Comets Julio A. Fernandez, 2005-07-19 Comets are small bodies but of great cosmic relevance Given its pristine nature they may preserve valuable and unique information on the chemical and physical processes that took place in the early solar system and that may be occurring in the formation of other planetary systems They might have even played a very important role in the origin of life on Earth Beyond that since ancient times comets have inspired awe superstition and also curiosity and debate Their sudden apparitions challenged the long held view of the immutability of the heavens which triggered a long debate on whether comets had a heavenly or terrestrial nature Therefore comets have a prominent role in the history of scientific thought that goes back to the most ancient civilizations The last apparition of comet Halley in 1986 was a landmark since it aroused a great expectation in the scientific community and in the public at large For the first time a flotilla of spacecrafts visited a comet A great number of popular and technical books were written on Halley and comets in general around the mid eighties The interest in comets never subsided after Halley's passage which is reflected in the large volume of printed material on these bodies I have taken the challenge to write a new book on comets that summarizes most of the recent advances on the subject including my own work developed during the last 25 years

Dynamics and Evolution of Minor Bodies with Galactic and Geological Implications S.V.M. Clube, Shin Yabushita, Jacques Henrard, 2012-12-06 Minor bodies in the Solar System though representing only a small fraction of the mass in the Solar System may well play a fundamental role in terrestrial evolution This book contains investigations of the dynamics and physics of comets asteroids and meteor streams and the rather controversial topic of periodic phenomena in the Solar System as signified by geological records together with several associated developments in celestial dynamics All these problems are interwoven This book makes a contribution towards unravelling the nature of the interactions between the Earth and its celestial environment

Comets in the Post-Halley Era R.L. Newburn, M. Neugebauer, Jürgen H. Rahe, 2012-12-06 Comets are always very impressive phenomena Their appearances at regular but mostly irregular times excite people who see them Astronomers have the obvious advantage of being able to see more of comets and to study them Their enthusiasm is reflected in the 50 papers in this book written by more than 90 experts The reviews in this book clearly describe a landmark in the history of cometary studies Knowledge gathered up to and including Comet Halley are presented in two volumes The first volume is about general aspects of observing and studying comets where they originate and how their evolution develops The second volume goes into the

details of what a comet is the nucleus the coma cometary dust plasmas and magnetic fields The book ends with a reflection by Fred Whipple about Comets in the Post Halley Era The book discusses all aspects of comets and is therefore suitable for use in graduate level courses All astronomers and geophysicists interested in comets will find very useful and well presented information in this book

The Dynamics of Small Bodies in the Solar System B.A. Steves, Archie E. Roy, 2013-06-29 The reader will find in this volume the Proceedings of the NATO Advanced Study Institute held in Maratea Acquafredda Italy between June 29 and July 12 1997 entitled THE DYNAMICS OF SMALL BODIES IN THE SOLAR SYSTEM A MAJOR KEY TO SOLAR SYSTEM STUDIES This Advanced Study Institute was the latest in the Cortina series of NATO ASI s begun in the early 1970 s firstly under the directorship of Professor Victor Szebehely and subsequently under Professor Archie Roy All except the latest were held at the Antonelli Institute Cortina d Ampezzo Italy Many of those now active in the field made their first international contacts at these Institutes The Institutes bring together many of the brightest of our young people working in dynamical astronomy celestial mechanics and space science enabling them to obtain an up to date synoptic view of their subjects delivered by lecturers of high international reputation The proceedings from these institutes have been well received in the international community of research workers in the disciplines studied The present institute included 15 series of lectures given by invited speakers and some 45 presentations made by the other participants The majority of these contributions are included in these proceedings

Asteroids, Comets, Meteors 1993 A. Milani, Mario Badiale, A. Cellino, 2012-12-06 THE MEETING The IAU Symposium 160 ASTEROIDS COMETS METEORS 1999 has been held at Villa Carlotta in Belgirate on the shore of Lago Maggiore Italy from June 14 to June 18 1993 It has been organized by the Astronomical Observatory of Torino and by the Lunar and Planetary Institute of Houston It has been a very large meeting with 323 registered participants from 38 countries The scientific program included 29 invited reviews 106 oral communications and 215 posters The subjects covered included all the aspects of the studies of the minor bodies of the solar system including asteroids comets meteors meteorites interplanetary dust with special focus on the interrelationships between these The meeting was structured as follows 5 morning plenary sessions have been devoted to invited reviews on 1 search programs 2 populations of small bodies 3 dynamics 4 physical observations and modelling 5 origin and evolution Two afternoon plenary sessions have been devoted to space missions to small bodies and to interrelationships between the different populations The afternoon parallel sessions have been devoted to dynamics of comets Toutatis Ida Gaspra physical processes in cometary comae and tails meteorites the cosmogonic message from cometary nuclei physics of asteroids the interplanetary dust complex comet nuclei meteors composition and material properties of comets dynamics of asteroids

Analysis of Returned Comet Nucleus Samples ,1997 The abstracts deal with the nature of cometary ices cryogenic handling and sampling equipment origin and composition of samples and spectroscopic thermal and chemical processing methods of cometary nuclei Laboratory simulation experimental results on dust samples are reported Some results obtained

from Halley's comet are also included. Microanalytic techniques for examining trace elements of cometary particles, synchrotron x-ray fluorescence and instrument neutron activation analysis (INAA) are presented.

Chaos, Resonance and Collective Dynamical Phenomena in the Solar System Sylvio Ferraz-Mello, 1992-05-31. This symposium was devoted to a new celestial mechanics whose aim has become the study of such objects as the planetary system, planetary rings, the asteroidal belt, meteor swarms, satellite systems, comet families, the zodiacal cloud, the preplanetary nebula, etc. When the three-body problem is considered instead of individual orbits, we are now looking for the topology of extended regions of its phase space. This Symposium was one step in the effort to close the ties between two scientific families: the observationally oriented scientists and the theoretically oriented scientists.

Literature 1985, Part 2 S. Böhme, U. Esser, W. Fricke, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G. Zech, 2013-12-14. *Astronomy and Astrophysics Abstracts* aims to present a comprehensive documentation of the literature concerning all aspects of astronomy, astrophysics and their border fields. It is devoted to the recording, summarizing and indexing of the relevant publications throughout the world. *Astronomy and Astrophysics Abstracts* is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union. Volume 40 records literature published in 1985 and received before February 15, 1986. Some older documents which we received late and which are not surveyed in earlier volumes are included too. We acknowledge with thanks contributions of our colleagues all over the world. We also express our gratitude to all organizations, observatories and publishers which provide us with complimentary copies of their publications. Starting with Volume 33, all the recording, correction and data processing work was done by means of computers. The recording was done by our technical staff members: Ms Helga Ballmann, Ms Mona El Choura, Ms Monika Kohl, Ms Sylvia Matyssek, Ms Karina Burkhardt, Ms Susanne Schlötelberg, Mr Martin Schlötelburg and Mr Stefan Wagner supported our task by careful proof reading. It is a pleasure to thank them all for their encouragement.

The New Rosetta Targets Luigi Colangeli, Elena Mazzotta Epifani, Pasquale Palumbo, 2013-11-08. This volume collects papers presented as invited and contributed talks or posters at the workshop on The NEW Rosetta targets: Observations, simulations and instrument performances which was held in Capri on October 13-15, 2003. More than 100 scientists covering different fields such as optical and radio astronomy, laboratory experiments and modelling of comet physics and processes as well as several Principal Investigators of the instruments on board Rosetta participated to this highly interdisciplinary workshop. The Rosetta mission was programmed for launch in January 2003 towards the short period comet 46P Wirtanen and the asteroids 140 Siwa and 4979 Otawara. However, due to problems with the Ariane V launcher, the launch was postponed and the European Space Agency had to identify new mission targets suitable for a launch window at the end of February 2004. The short period comet 67P Churyumov Gerasimenko was chosen as primary target for the new baseline, together with one or two asteroids to be selected depending on the one available after the Rosetta probe interplanetary orbit insertion. After the successful launch of the mission on March 2nd

2004 the new baseline foresees a double flyby with asteroids 21 Lutetia and 2867 Steins on the way towards the rendezvous with the primary target that will be reached in 2014 The papers included in this volume cover different complementary fields observations of the new Rosetta targets laboratory experiments theoretical simulation of comet environment and processes performances of the experiments on board Rosetta spacecraft also in view of the new mission targets After the postponement of the mission launch comet 67P Churyumov Gerasimenko was the subject of an intense observation campaign between February and June 2003

Exploring Organic Environments in the Solar System National Research Council, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Division on Engineering and Physical Sciences, Space Studies Board, Task Group on Organic Environments in the Solar System, 2007-03-09 The sources distributions and transformation of organic compounds in the solar system are active study areas as a means to provide information about the evolution of the solar system and the possibilities of life elsewhere in the universe There are many organic synthesis processes however and ambiguity surrounds the relative effectiveness of these processes in explaining the distribution of organic compounds in the solar system As a consequence NASA directed the NRC to determine what processes account for the reduced carbon compounds found throughout the solar system and to examine how planetary exploration can advance understanding of this central issue This report presents a discussion of the chemistry of carbon an analysis of the formation modification and preservation of organic compounds in the solar system and an assessment of research opportunities and strategies for enhancing our understanding of organic material in the solar system

Robotic Exploration of the Solar System Paolo Ulivi, David M. Harland, 2014-09-16 In Robotic Exploration of the Solar System Paolo Ulivi and David Harland provide a comprehensive account of the design and management of deep space missions the spacecraft involved some flown others not their instruments and their scientific results This fourth volume in the series covers the period 2004 to the present day and features coverage of the Rosetta and Curiosity missions up to the end of 2013 coverage of Mars missions since 2005 including the Mars Reconnaissance Orbiter Phoenix and Fobos Grunt plus a description of plans for future robotic exploration of the Red Planet coverage of all planetary missions launched between 2004 and 2013 including the Deep Impact cometary mission the MESSENGER Mercury orbiter the New Horizons Pluto flyby and the Juno Jupiter orbiter the first complete description of the Chinese Chang e 2 asteroid flyby mission ever published extensive coverage of future missions including the European BepiColombo Mercury orbiter and international plans to revisit the most interesting moons of Jupiter and Saturn

Solid State Astrochemistry Valerio Pirronello, Jacek Krelowski, Giulio Manicò, 2012-12-06 The fundamental role that Astrochemistry plays in regulating the processes that in interstellar clouds lead to the formation of stars and how these processes concur into affecting the shape and the dynamics of galaxies and hence into showing the Universe in the way it appears to us is well established Together with those occurring in the gas phase a special relevance is recognized to processes that involve interstellar dust grains the solid component of matter

diffused among stars The school on Solid State Astrochemistry held at the Ettore Majorana Centre for Scientific Culture in Erice Sicily from the 5th to the 15th of June 2000 was the fifth course of the International School of Space Chemistry In spite of its very focused aim it was attended by 66 participants from 17 different countries that in the very special environment provided by the Majorana Centre discussed in great details the various aspects of the subject **Chaos in Gravitational N-Body Systems** J.C. Muzzio, Sylvio Ferraz-Mello, Jacques Henrard, 2012-12-06 The Workshop on Chaos in Gravitational N Body Systems was held in La Plata Argentina from July 31 through August 3 1995 The School of Astronomy and Geophysics of La Plata National University best known as La Plata Observatory was the host institution The Observatory cover photo was founded in 1883 and it has nowadays about 120 faculty members and 70 non faculty members devoted to teaching and research in different areas of astronomy and geophysics It was very nice to see how many people from young students to well recognized authorities in the field came to participate in the meeting This audience success was due to the increasing understanding of the necessity to gather together people from Celestial Mechanics and Stellar Dynamics to explore the problems that exist at the frontier of these two disciplines and their common interest in chaotic phenomena and integrability the famous Argentine beef was certainly also an attraction All the papers of the present volume were refereed Most were accepted after some revision while some needed no change at all compliments to their authors and sadly a few could not be included About half a dozen authors did not submit their contributions for publication mainly because they were already in print elsewhere Therefore the special issue of Celestial Mechanics and Dynamical Astronomy includes all the invited lectures of the workshop while the proceedings volume includes those same lectures plus the bulk of but not all the contributions to the meeting

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