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# THE MOTION, EVOLUTION OF ORBITS, AND ORIGIN OF COMETS

Edited by G. A. CHEBOTAREV, E. I. KAZIMIRCHAK-POLONSKAYA,  
and B. G. MARSDEN



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# The Motion Evolution Of Orbits And Origin Of Comets International

**U. Esser,H. Hefele,I. Heinrich,W.  
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## **The Motion Evolution Of Orbits And Origin Of Comets International:**

The Motion, Evolution of Orbits, and Origin of Comets G.A. Chebotarev, E.I. Kazimirchak-Polonskaya, B.G.

Marsden, 2012-12-06 The many papers by Soviet authors have been translated into English by A P Kirillov N A Nikiforova E A Voronov and others Some of the papers were translated by the authors themselves The discussion records have been prepared at the Institute for Theoretical Astronomy by V K Abalakin N A Belyaev A P Kirillov V A Shor E A Voronov N S Yakhontova and others The three papers published in French have been carefully checked by B Milet The final editing has been done at the Smithsonian Astrophysical Observatory and we thank J H Clark P D Gregory J E Kervick and G Warren for retyping much of the material Our special thanks are due to the D Reidel Publishing Company for the excellent care they have taken in printing these proceedings of IAU Symposium No 45 G A CHEBOTAREV E I KAZIMIRCHAK POLONSKAYA B G MARSDEN INTRODUCTION The idea to organize a Symposium on The Motion Evolution of Orbits and Origin of Comets dates back to the IAU thirteenth General Assembly held in 1967 in Prague Owing to the impossibility of completing during the General Assembly the discussion on the problem of orbital evolution of comets Professor G A Chebotarev then the newly elected President of IAU Commission 20 initiated the organization of the international symposium in Leningrad where the full scope of cometary problems might be considered from the viewpoint of celestial mechanics **The Motion, Evolution of**

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the Presidents of the forty Commissions of the International Astronomical Union it refers to the progress in our discipline during the three years 1970 1971 and 1972 As compared to earlier volumes a gradual change in character is unmistakable The ever increasing flow of publications combined with the obvious necessity to keep the Reports at a reasonable size and price level has gradually forced the Commission Presidents to be more selective than before in drafting their Reports I have certainly stimulated them into that direction in order that Reports like these be valuable and lasting it seems imperative that the individual contributions have the character of a critical overall review where a fairly complete summary is given of the major developments and discoveries of the past three years and in which the broad developments and new trends be clearly outlined while at the same time essential problems for future research are identified With respect to the latter item I have suggested the Commission Presidents to add to their reports a brief section on scientific priorities for future research in the field of their Commissions In order to save space I have suggested to Commission Presidents that references to published papers are given on the basis of their number in the published issues of Astronomy and Astrophysics Abstracts For instance the indication 06 078 019 or AAA 06 078

**Transactions of the International Astronomical Union** C. de Jager, A. Jappel, 2012-12-06 The changing character of the IAU General Assemblies becomes most clear from a comparison of the agenda of the Brighton meeting with that of one of the earlier meetings The fourth General Assembly Cambridge Mass 1932 had about 240 participants registered guests included the Brighton meeting had about 2300 people attending The Cambridge meeting lasted 5 working days of which however three half days were exclusively devoted to excursions leaving four real meeting days At that time the nearly 30 commissions had each only one meeting during part of a morning or afternoon some commissions did not meet at all There was one public lecture by Sir Arthur Eddington on The Expanding Universe Most of the small European countries were represented by two or three delegates only but the delegations of France and Great Britain were composed of 20 and 18 scientists respectively at that time there were only two delegates from Germany After the Brighton General Assembly with about 200 commission meetings one commission met eleven times six Joint Discussions four Invited Discourses a Special Meeting and hardly time for excursions there were a few complaints about too many overlapping meetings

**International Aerospace Abstracts** ,1989 **The Motion, Evolution of Orbits, and Origin of Comets** ,1970 **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 *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 Halley's Comet, 1984

Physics and Chemistry of Comets Walter F. Huebner, 2012-12-06 As this excellent book demonstrates the study of comets has now reached the fascinating stage where we understand comets in general simple terms while at the same time we are uncertain about practically all the details of cometary nature structure processes and origin In every aspect even including dynamics a choice among several or many competing theories is made impossible simply by the lack of detailed knowledge The space missions snapshot studies of two comets particularly the one that immortalizes the name of Sir Edmund Halley have produced a huge mass of valuable new information and a number of surprises Nonetheless we face the tantalizing realization that we have obtained only a fleeting glance at two of perhaps a hundred billion or more comets with possibly differing natures origins and physical histories To my personal satisfaction comets seem to have discrete nuclei made up of dirty snowballs as I concluded four decades ago but perhaps they are more like frozen rubbish piles *Smithsonian Year* Smithsonian Institution, 1973 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1975

**The International Comet Quarterly**, 2004 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

*Scientific and Technical Aerospace Reports*, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

**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

**Comets II** M. Festou, H. U. Keller, Harold A. Weaver, 2004-11 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

*Literature 1987, Part 2* U. Esser, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G. Zech, 2013-11-11 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 44 records literature published in 1987 and received before February 15 1988 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 Dr Siegfried B hme retired from his duties as co editor of Astronomy and Astrophysics Abstracts on December 31 1987 Since 1950 he participated in the bibliographic work of the institute He served as a reviewer for the Astronomischer Jahresbericht and became one of the editors of Astronomy and Astrophysics Abstracts in 1969 After his retirement in 1975 he took care of particularly the Russian literature on a voluntary basis for 12 years It is a pleasure to thank Siegfried B hme for his valuable contributions 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 Christiane Jehn Ms Monika Kohl Ms

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