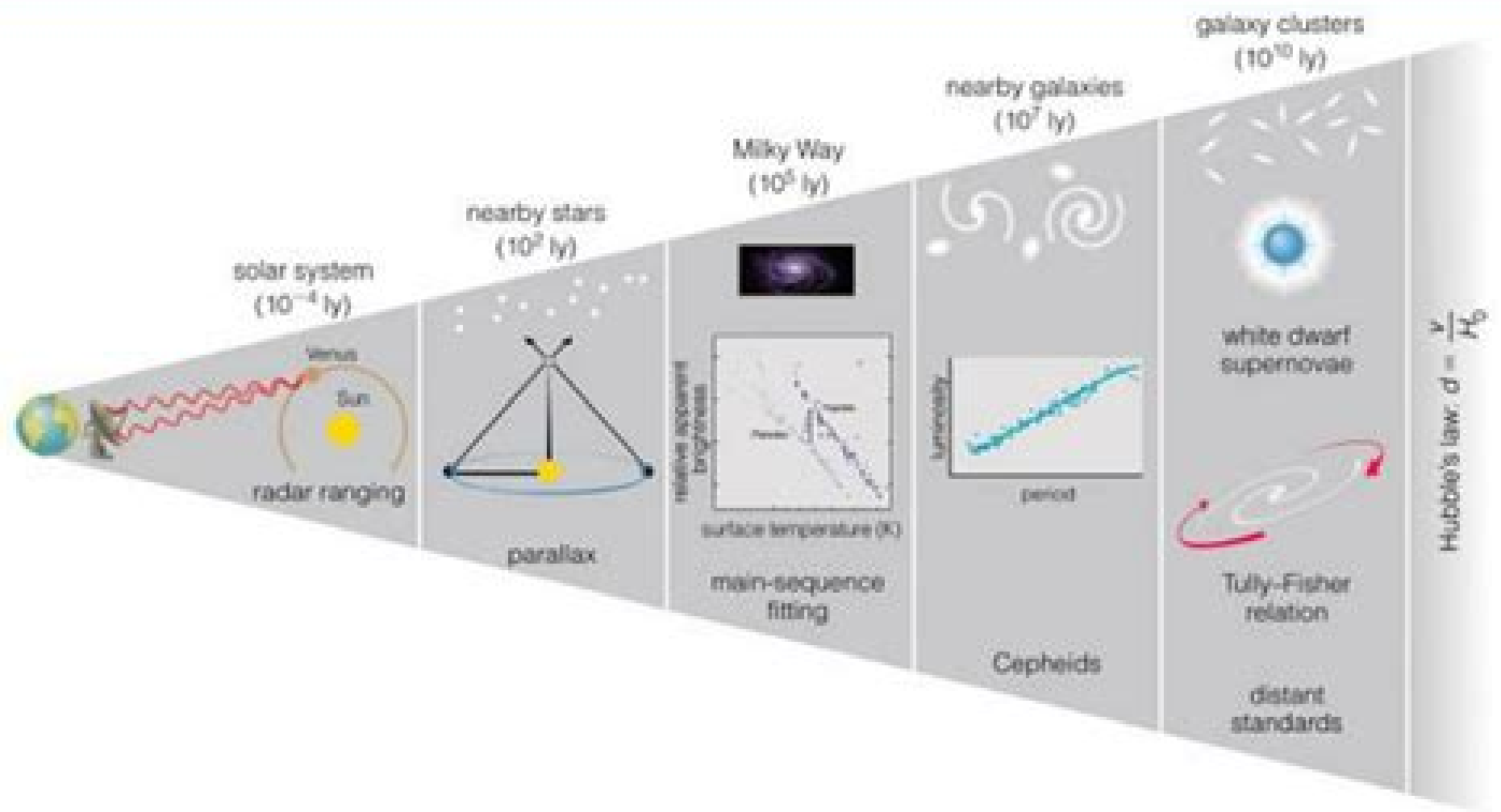


# The 'distance ladder'



# Extragalactic Distance Scale

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## **Extragalactic Distance Scale:**

The Extragalactic Distance Scale Sidney Van den Bergh, Christopher J. Pritchett, 1988      **The Extragalactic Distance Scale** Michael Solarz, 1968      **The Extragalactic Distance Scale**, 1996      The Extragalactic Distance Scale Space Telescope Science Institute (U.S.). Symposium, 1997-06-28 One of the hottest debates in astronomy and cosmology today concerns the value of the Hubble constant This constant is of paramount importance since it fixes the size and age of the Universe At a symposium at the Space Telescope Science Institute experts from around the world presented the latest results from a plethora of techniques for determining the Hubble constant The value has always been controversial but at this meeting experts results agreed for the first time to within about 20% Based on the meeting this book presents twenty three specially written review articles They provide a comprehensive account of the Hubble constant debate with the latest results from gravitational lensing supernovae and novae the Tully Fisher relation the Sunyaev Zeldovich effect globular clusters planetary nebulae light echoes and the Hubble Space Telescope Key Project This timely volume provides a standard reference for graduate students and researchers in astronomy and cosmology      Stellar Candles for the Extragalactic Distance Scale Danielle Alloin, Wolfgang Gieren, 2003-10-20 This volume reviews the current status with respect to both theory and observation of the extragalactic distance scale A sufficient accuracy is required both for a precise determination of the cosmological parameters and also in order to achieve a better understanding of physical processes in extragalactic systems The standard candles used to set up the extragalactic distance scale reviewed in this book include cepheid variables RR Lyrae variables novae Type Ia and Type II supernovae as well as globular clusters and planetary nebulae      *The Extragalactic Distance Scale, I.* Gérard De Vaucouleurs, 1977      **The Cosmic Distance Scale and the Hubble Constant** Gérard De Vaucouleurs, 1982      The Extragalactic Distance Scale Christopher J. Pritchett, Sidney Van den Bergh, 1988      *Stellar Candles for the Extragalactic Distance Scale* Danielle Alloin, Wolfgang Gieren, 2014-03-12 This volume reviews the current status with respect to both theory and observation of the extragalactic distance scale A sufficient accuracy is required both for a precise determination of the cosmological parameters and also in order to achieve a better understanding of physical processes in extragalactic systems The standard candles used to set up the extragalactic distance scale reviewed in this book include cepheid variables RR Lyrae variables novae Type Ia and Type II supernovae as well as globular clusters and planetary nebulae      Limits to the Extragalactic Distance Scale from Integrated Properties of Local Group Galaxies David John Westpfahl, 1985      Problems Concerning the Extragalactic Distance Scale George O. Abell, 1972      **Measuring the Extragalactic Distance Scale with the Hubble Space Telescope** Jeremy R. Mould, 2011      Standardization in Measurement Oliver Schlaudt, Lara Huber, 2015-10-06 The application of standard measurement is a cornerstone of modern science In this collection of essays standardization of procedure units of measurement and the epistemology of standardization are addressed by specialists from sociology history and the philosophy of science      **Cosmic Pinwheels:**

**Spiral Galaxies And The Universe** Ronald J Buta, 2020-10-29 It is strongly biased towards the author's speciality of galaxy morphology and particularly to bars and rings To be fair these are often given fairly short shrift in other textbooks so this is a useful source of detail on such topics from an expert In addition references to original technical papers are given throughout which makes the book a handy introduction to the literature which students may well find useful The Observatory Magazine The main goal of the book is to introduce the reader to the world of spiral galaxies how spirals were discovered what they represent from a physical point of view and what people have learned about the universe and the nature of galaxies in general from the study of spirals Topics include early discoveries of nebulae the island universe concept the structure of spirals as seen both visually with telescopes and in images obtained with different filters the role of spirals in the discovery of interstellar dust and dark matter the different kinds of spiral galaxies and the importance of bars and rings how different non spiral galaxy types such as elliptical galaxies and S0 galaxies connect to spirals and how spirals have contributed to our understanding of star formation and evolution galaxy formation and evolution the cosmological distance scale and the universal expansion The Milky Way as a spiral galaxy is also discussed The book is profusely illustrated and not only a discourse on the spirals but is also a personal reminiscence based on the author's studies of spiral galaxies over the past 45 years

**Census of the Galaxy: Challenges for Photometry and Spectrometry with GAIA** Vidas Vansevicius, Arunas Kucinskas, Jokubas Sudzius, 2012-12-06 Astrometry from space was performed for the first time and with great success by the ESA Hipparcos satellite 1989-93 This mission was designed as an astrometry mission but the use of a photon counting detector made it possible to produce very important photometric results the most accurate astronomical photometry ever by the main Hipparcos mission in a very broad band of 120000 stars and the two colour Tycho 2 photometry of 2.5 million stars The cornerstone ESA mission GAIA was approved in October 2000 for launch not later than 2012 This mission will use CCDs in time delayed integration mode instead of the photo cathode detectors used in Hipparcos Due to the higher quantum efficiency of the CCDs simultaneous integration of many stars and larger telescope apertures GAIA will utilize the star light a million times more efficiently than Hipparcos resulting in astrometry and multi colour photometry for one billion stars GAIA photometry is crucial for the scientific utilization of the astrometric results and the photometric data have a high scientific content in themselves

*Critical Dialogues in Cosmology* Neil Turok, 1997 A special forum on critical issues in cosmology in celebration of Princeton University's 250th birthday The proceedings of this conference held as part of Princeton University's 250th birthday celebrations features lectures and discussions by many of the world's leading scientists on the status and future of modern cosmology The volume offers the non specialist a fascinating insight into the current status of cosmology and the issues of contention at the research frontiers of the science It constitutes the proceedings of a special conference held as part of Princeton University's 250 birthday celebrations featuring lectures and discussions by many of the world's leading scientists on the status and future of modern cosmology The volume is based on the format of a

series of debates in which a range of conventional wisdom is reviewed defended and criticised by renowned specialists in each field The technical level of the volume is accessible to a very broad audience of non specialists This innovative exchange of ideas at the cutting edge of cosmology therefore offers an unusual opportunity for the average reader to savour the excitement of probing into the ultimate secrets of the universe Publisher s website [Deciphering the Universe through Spectroscopy](#) Regina von Berlepsch,2011-08-24 This 22nd volume in the series contains 15 invited reviews and highlight contributions from outstanding speakers presented during the 2009 annual meeting of the Astronomical Society on the subject of Deciphering the Universe through Spectroscopy held in Potsdam Germany Topics range from the measurements of magnetic fields on the surface of the sun via detailed measurements of abundances in stellar atmospheres to the kinematics of the universe at its largest scales The result is a systematic overview of the latest astronomical and cosmological research

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