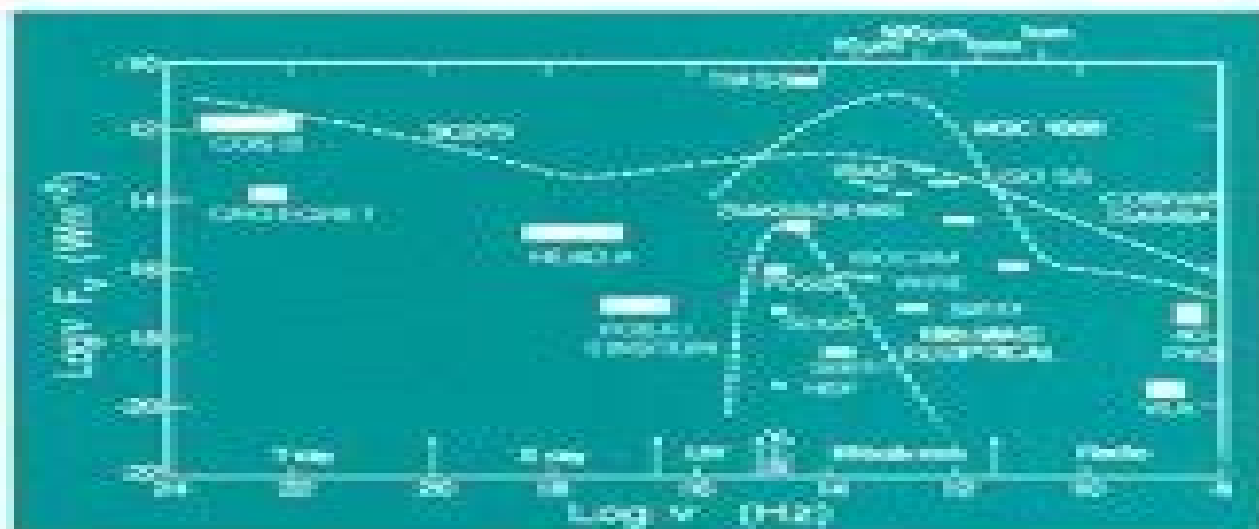


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NEW HORIZONS FROM MULTI-WAVELENGTH SKY SURVEYS

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New Horizons From Multi Wavelength Sky Surveys

**Brian J. McLean, Daniel A.
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Payne**



New Horizons From Multi Wavelength Sky Surveys:

New Horizons from Multi-Wavelength Sky Surveys Brian J. McLean, Daniel A. Golombek, Jeffrey J.E. Hayes, Harry E. Payne, 2012-12-06 Large area sky surveys are now a reality in the radio IR optical and X ray passbands In the next few years new surveys using optical UV and IR mosaic cameras with high throughput digital detectors will expand the dynamic range and accuracy of photometry and astrometry of objects over a significant fraction of the entire sky Parallel X ray and radio surveys over the same areas will produce astronomical image and spectroscopic databases of unprecedented size and quality The combined data sets will provide significant new constraints on star formation stellar dynamics Galactic structure the evolution of galaxies and large scale structure as well as new opportunities to identify rare objects in the solar system and the Galaxy Large area surveys have formidable data acquisition processing archiving and data distribution demands and this meeting provided a forum for sharing experiences amongst workers specializing in different wavebands as well as discussing how multiband observations can reveal fundamental relationships in our understanding of the Universe **New Horizons**

from Multi-Wavelength Sky Surveys Brian J. McLean, Daniel Golombek, Jeffrey J.E. Hayes, Harry E. Payne, 1998-01-31 Large area sky surveys are now a reality in the radio IR optical and X ray passbands In the next few years new surveys using optical UV and IR mosaic cameras with high throughput digital detectors will expand the dynamic range and accuracy of photometry and astrometry of objects over a significant fraction of the entire sky Parallel X ray and radio surveys over the same areas will produce astronomical image and spectroscopic databases of unprecedented size and quality The combined data sets will provide significant new constraints on star formation stellar dynamics Galactic structure the evolution of galaxies and large scale structure as well as new opportunities to identify rare objects in the solar system and the Galaxy Large area surveys have formidable data acquisition processing archiving and data distribution demands and this meeting provided a forum for sharing experiences amongst workers specializing in different wavebands as well as discussing how multiband observations can reveal fundamental relationships in our understanding of the Universe **Mining the Sky** A.J.

Banday, S. Zaroubi, M. Bartelmann, 2001-09-11 The book reviews methods for the analysis of astronomical datasets particularly emphasizing very large databases arising from both existing and forthcoming projects as well as current large scale computer simulation studies Leading experts give overviews of cutting edge methods applicable in the area of astronomical data mining Wide Field Surveys in Cosmology Stéphane Colombi, Yannick Mellier, Brigitte Raban, 1998

Newsletter, 1992 *Encyclopedia of Astronomy & Astrophysics* P Murdin, 2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia's authority is assured by editorial and advisory boards drawn from the world's foremost

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The Future of Small Telescopes in the New Millennium Terry D. Oswalt, 2012-12-06 The motivation for these volumes is to provide a vision for the future of small telescopes While this is an admirable task ultimately I believe that as happens all the time in science the prognostications will be overtaken by a rapidly changing scientific reality As Virginia Trimble points out in chapter 1 the kinds of big questions that face us as astronomers today are rather different than the ones that drove the construction of astronomical facilities through much of the twentieth century Right now it appears that small telescopes will not have a lot of influence in answering those questions though they will of course contribute enormously to the many issues discussed throughout the three volumes We are on the verge of opening a whole new parameter space that may revolutionize the way we think of small telescopes and their role in astronomy the domain of the rapidly variable sky While the LSST is the most prominent example it is a long way in the future Nemiroff Rafert chapter 2 consider the value of monitoring large parts of the sky on a continuous basis using technology similar to a webcam They have installed their CONCAM2 at four locations including Kitt Peak A related project built and operated by the Harvard graduate student Gaspar Bakos HAT-1 Hungarian Automated Telescope also is in operation at Kitt Peak

The Future of Small Telescopes in the New Millennium: The telescopes we use Terry D. Oswalt, 2003 This title details the essential roles that small telescopes should play in 21st century science and how their future productivity can be maximized Over 70 experts from all corners of the international astronomical community have created a reference on the future of big science with small telescopes at national facilities and their omission from national science priority studies the oft lamented demise of the small telescope has been greatly exaggerated In fact the future of these workhorses of astronomy will be brighter than ever if creative steps are taken now This three volume set defines essential roles that small telescopes should play in 21st century science and the ways in which a productive future for them can be realized A wide cross section of the astronomical community has contributed to a definitive assessment of the present and a vision for the future radio and space based facilities face problems in scientific prioritization and funding It highlights how current small facilities are evolving to meet the scientific priorities and economical realities of the 21st century through standardization of instrumentation use of off the shelf technology specialization optical improvements new modes of scheduling automation and internet access

New Horizons from Multi-Wavelength Sky Surveys Brian J. McLean, Daniel Golombek, Jeffrey J.E. Hayes, 2014-01-15

Observational Cosmology M.N. Bremer, N. Jackson, I. Pérez-Fournon, 2012-12-06 Radio surveys play an important role in observational cosmology However until recently the surveys have been either of wide area but with low sensitivity or of small area with high sensitivity Both limit the kinds of cosmology that can be carried out with radio surveys This situation has been revolutionised in the past few years by the

availability of new large area high sensitivity radio surveys at both low and high radio frequencies These significant improvements allow studies based on both the statistics of the surveys themselves and multiwavelength follow up of the galaxies and AGN responsible for the radio emission It is therefore an opportune time to summarise progress in this field with a workshop This book comprises the proceedings of the Observational Cosmology with the New Radio Surveys workshop held on Tenerife January 13 15 1997 Topics covered include lessons learned and important results from earlier surveys descriptions of some of the new surveys clusters of galaxies and large scale structure radio source evolution CMB studies gravitational lensing and multiwavelength studies of distant radio sources

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