

1. Record Nr.	UNISA996466687903316
Titolo	Star Formation and Techniques in Infrared and mm-Wave Astronomy [[electronic resource] ] : Lectures Held at the Predoctoral Astrophysics School V Organized by the European Astrophysics Doctoral Network (EADN) in Berlin, Germany, 21 September – 2 October 1992 // edited by T.P. Ray, S.V.W. Beckwith
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1994
ISBN	3-540-48565-1
Edizione	[1st ed. 1994.]
Descrizione fisica	1 online resource (XIII, 314 p. 86 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 431
Disciplina	523.8
Soggetti	Observations, Astronomical Astronomy—Observations Astrophysics Geophysics Astronomy, Observations and Techniques Astrophysics and Astroparticles Geophysics/Geodesy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Molecular clouds and star formation -- An introduction to T Tauri stars -- Massive stars and their interactions with their environment -- Observing far-infrared and submillimeter continuum emission -- Near infrared techniques for studies of star formation -- High spatial resolution infrared observations — Principles, methods, results -- ROSAT survey sources in star formation regions -- Stellar jets with time-dependent direction of ejection -- The structure and evolution of OB associations -- ROSAT X-ray Study of the Chamaeleon I dark cloud: The stellar population -- Comparison of molecular line data with IRAS and HI data in high latitude clouds -- Photometric study of rotation in low-mass PMS stars -- Einstein observations of T Tauri stars in Taurus-Auriga: Properties of X-Ray emission and relationships with pre-mainsequence activity -- A study on the kinematics of the HII

regions of NGC 4449 -- Star formation in dwarf irregular galaxies -- Centimeter continuum emission from IRAS 16293-2422 -- N(CO)/N(H<sub>2</sub>)-ratio in the local interstellar medium -- Study of the physical and chemical conditions towards the W3 region -- Spatial and kinematic properties of winds from T-Tauri-Stars -- CO deficiency in galaxies of the Fornax cluster? -- Properties and distribution of gas and dust in the thumbprint nebula -- A Disk around the young stellar object Z Canis Majoris? -- A CS (J=1 ? 0) study of regions previously mapped in ammonia -- Interacting H<sub>2</sub>O masers in star-forming regions -- Surface adjustment of the KOSMA 3m telescope using phase retrieval "holography" -- Ammonia observations of dense cores in molecular clouds -- Tidally-induced warps in T Tauri disks: First-Order Perturbation theory -- Near infrared images of galactic water masers -- Multiwavelength study of star formation related objects.

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Sommario/riassunto

The rapid growth in our understanding of how stars form owes a lot to recent developments in techniques for carrying out infrared and millimeter-wave astronomy. Thus Star Formation and Techniques in mm-Wave Astronomy were natural joint themes for the Fifth EADN Predoctoral Astrophysics School held at the Technische Universität Berlin. The lecture courses by six world-class experts are aimed at postgraduate students and scientists with a non-specialist interest in the field. Topics include molecular clouds, T Tauri stars, OB stars, observation methods in infrared and mm astronomy, as well as high resolution techniques.

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