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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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