Record Nr. UNINA9910300390703321 The Labyrinth of Star Formation / / edited by Dimitris Stamatellos, **Titolo** Simon Goodwin, Derek Ward-Thompson Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa 2014 **ISBN** 3-319-03041-8 Edizione [1st ed. 2014.] Descrizione fisica 1 online resource (490 p.) Astrophysics and Space Science Proceedings, , 1570-6591;; 36 Collana Disciplina 523.8 Soggetti **Astrophysics** Observations, Astronomical Astronomy—Observations **Physics** Cosmology Space sciences Astrophysics and Astroparticles Astronomy, Observations and Techniques Numerical and Computational Physics, Simulation Space Sciences (including Extraterrestrial Physics, Space Exploration and Astronautics) Inglese Lingua di pubblicazione **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Session I: Review of Prof. Whitworth's Work -- Session II: Low-Mass Star Formation -- Session III: Young Circumstellar Discs -- Session IV: Computational Star Formation: Models, Techniques, & Predictions --Session V: Triggered Star Formation -- Session VI: Probing the Initial Stages of Star Formation -- Session VII: The Stellar Initial Mass Function -- Session VIII: High-Mass Star Formation -- Session IX: Clustered Star Formation -- Session X: Conference Photographs. Sommario/riassunto This volume contains the proceedings from the conference "The Labyrinth of Star Formation" that was held in Crete, Greece, in June 2012, to honour the contributions to the study of star formation made

by Professor Anthony Whitworth of Cardiff University. The book covers many aspects of theoretical and observational star formation: low-mass

star formation; young circumstellar discs; computational methods; triggered star formation; the stellar initial mass function; high-mass star formation; and stellar clusters. Each section starts with a review paper, followed by papers discussing recent theoretical and observational work. This volume summarises our current understanding of star formation and is useful for both graduate students and researchers alike.