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Sio-Emitting Condensations Throughout the Envelope of the Yellow Hypergiant IRC 10420 Ka-Tat Wong, 2017-01-26 This dissertation, SiO-emitting Condensations Throughout the Envelope of the Yellow Hypergiant IRC 10420 by Ka-tat, Wong, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract: IRC+10420 is a massive ($> 20M_{\odot}$), very luminous ($> 10^6$ DEGREES6L \odot) star that is in the rare phase of evolution from the red supergiant to the luminous blue variable or Wolf-Rayet phase. Previous observations reveal that the circumstellar envelope is rich in molecular gas, and can be detected out to a radius of about $8 = 6.0 \times 10^{17}$ cm. Observations in CO also reveal that the global massloss rate of IRC+10420 has changed dramatically over the last 6000 years, comprising two major episodes of mass loss lasting for about 1000 and 4000 years respectively separated by period of very low mass-loss rate lasting for about 1000 years. Surprising, previous observation in SiO($J = 2 - 1$) revealed a ring-like enhancement at a radius of about 1 (7.5×10^{16} cm) from the star, contrary to the expectation that SiO molecules should be frozen onto dust grains very close to the star (within 10^{16} cm). This ring-like enhancement has been attributed to a large-scale shock produced by interactions between faster and slower moving portions of the expanding envelope. In this thesis, we mapped the circumstellar envelope in SiO($J = 1 - 0$) to better constrain the physical conditions (gas density, temperature and SiO abundance) in the SiO-emitting gas. We find a similar ring-like enhancement in SiO($J = 1 - 0$) but located further out at a radius of about 2 (1.5×10^{17} cm), and confirm that the SiO emission extends as far out as the CO envelope. The computed SiO($J = 2-1$)/SiO($J = 1-0$) line ratio significantly exceeds unity at radius out to about the location of the ring-like enhancement (2), and drops to a value of about unity beyond this radius. From a one-dimensional non-local thermodynamic equilibrium model, we explore the physical conditions that can reproduce the observed brightness temperatures in both SiO($J = 10$) and SiO($J = 2-1$) as well as their line ratio as a function of radius. The SiO-emitting gas is required to have a density that is much higher (from a factor of a few to about two orders of magnitude) than has been inferred for the CO-emitting gas at the same radii. The required surface filling factor of the SiO-emitting gas depends on their unknown gas-phase SiO abundance; for an abundance of 10^{-5} , as inferred just above the photospheres of lowmass evolved stars, the surface filling factor of these condensations range from 0.001 to 0.1. Thus, the SiO emission from the envelope of IRC+10420 most likely originates from dense condensations that are immersed in more diffuse gas that produces the bulk of the observed CO emission. We reason that the SiO-emitting condensations correspond to the dust clumps detected in reflected light with the Hubble Space Telescope. These dust clumps are distributed from near the star out to a radius of 2, spanning the same extent as the peaks of SiO- (and CO-) emitting envelope. We show that these dust clumps are expanding in every direction away from the stars at a velocity that is significantly higher than the CO-emitting gas, and anticipate that shocks thus generated heats up the dust clumps to release SiO into the gas phase. DOI: 10.5353/th_b5153741 Subjects: Stars - Evolution

Catalog of Infrared Observations Daniel Y. Gezari,Marion Schmitz,Jaylee M. Mead,1987

American Stone Trade ,1925

The Spatial Structure of a New OH Maser Feature in IRC + 10420 John M. Benson,Robert Mutel,John D. Fix,Mark J. Claussen,University of Iowa. Department of Physics and Astronomy,1978

The Polygraph and Lie Detection National Research Council,Division of Behavioral and Social Sciences and Education,Committee on National Statistics,Board on Behavioral, Cognitive, and Sensory Sciences,Committee to Review the Scientific Evidence on the Polygraph,2003-01-22 The polygraph, often portrayed as a magic mind-reading machine, is still controversial among experts, who continue heated debates about its validity as a lie-detecting device. As the nation takes a fresh look at ways to enhance its security, can the polygraph be considered a useful tool? The Polygraph and Lie Detection puts the polygraph itself to the test, reviewing and analyzing data about its use in criminal investigation, employment screening, and counter-intelligence. The book looks at: The theory of how the polygraph works and evidence about how deceptivenessand other psychological conditionsaffect the physiological responses that the polygraph measures. Empirical evidence on the performance of the polygraph and the success of subjects' countermeasures. The actual use of the polygraph in the arena of national security, including its role in deterring threats to security. The book addresses the difficulties of measuring polygraph accuracy, the usefulness of the technique for aiding interrogation and for deterrence, and includes potential alternativesasuch as voice-stress analysis and brain measurement techniques.

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Budget University of Virginia,1997

High Resolution OH Maser Observations of IRC + 10420 Robert Mutel,John D. Fix,John M. Benson,J. C. Webber,University of Iowa. Department of Physics and Astronomy,1978

VLBI and Compact Radio Sources Roberto Fanti,K. Kellerman,Giancarlo Setti,1984-05-31 I.A.U. symposium No. 110 on VLBI and Compact Radio Sources was held in Bologna, Italy from June 27 to July 1, 1983. 166 participants from 19 countries were registered and 106 invited and contributed papers were registered. The scientific presentations and discussion concentrated on VLBI observation and interpretation of galactic and extragalactic radio sources, including topics as diverse as quasars and galactic nuclei, inter stellar masers, pulsars, and astrometry. Geodetic applications and technical development were treated only briefly, as these topics have been the subject of other recent international symposia. Since the first VLBI observations in 1967, sensitivity, resolution, and image quality have improved dramatically. Radio maps shown at the symposium were of comparable quality to conventional synthesis maps being made at the time of the first VLBI experiments 15 years ago, but with a resolution more than a factor of 1000 better. We wanted to accommodate the large number of contributed papers in this rapidly developing field, but there was inadequate time for normal oral

presentations and discussion. We therefore asked that all contributed papers be put on display for at least 24 hours prior to a brief oral summary. A question and discussion period followed groups of oral presentations on the same or similar topic. In this way the opportunity for interactive discussion, not available in conventional poster displays, was preserved.

Problems of Drug Dependence College on Problems of Drug Dependence (U.S.). Scientific Meeting,1988

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