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< 研究 論文 >

Variation of Grain-Size Inside Bok Globule B 361

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Utilizing the PDS microdensitometry system at the Kitt Peak National Observatory, we have performed an automated star counting over Bok globule B 361. Stars as faint as 21 mag. and 22 mag. were counted on the POSS blue and red glass plates, respectively. Resulting extinction map of B 361 has an angular resolution of one arc minute. Distribution of extinction over the projected angular distance from the cloud center can well be approximated by power-laws of two distinctly different indices for the blue and red. The difference in the power-law index strongly suggests that mean grain-size increases towards the cloud center. Effects of grain-size variation upon the mass distribution inferred from extinction measurements will be discussed.

A Role of Gravitational Ram Pressure in Bipolar Molecular Outflows

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We propose that freely falling material can 'squeeze' a jet cavity in the center of an accretion disk, converting it into a momentum reservoir. A central stellar wind escapes through the thin part of the disk, thus developing a stellar jet by the usual nozzle mechanism. We argue that this can