

The impact of high-mass protostellar accretion bursts on the physical conditions in the ISM in high-mass star forming regions

R.Burns,¹ N. Sakai,¹ and O. Bayandina²

¹*RIKEN Cluster for Pioneering Research, 2-1 Hirosawa, Wako-shi, Saitama, 351-0198,*

Japan

²*INAF – Osservatorio Astrofisico di Arcetri, Largo E. Fermi 5, 50125 Firenze, Italy*

High-mass protostellar accretion bursts are rare and energetic events which drive increased radiation. Due to the scarcity of studied events their impact on the surrounding ISM is not well documented. However, very recently a handful of accretion events have been investigated and clear evidence of the effects of irradiation has been observed in both the 10-1000 AU regions within the disk of the accreting protostars, out to influencing the physical conditions of other protostars 1000s of AU away. In this contribution we present evidence of the affects of high-mass protostellar bursts on the ISM regions of high-mass star formation.