

The mass accretion rate is obtained from the UV excess measured on g-r vs. u-g and dereddened u-r vs. r diagrams. The u-band excess luminosity is converted into total L_{acc} according to the prescription $log(L_{acc}/L_{Sun}) = 0.95 log(L_{u_exc}/L_{Sun}) + 1.06$ (Venuti et al., in prep.)

log M(M_o)

0

-0.5

The mean M_{acc} values and variability bars computed in three broad mass intervals ($<0.4~M_{sun}$; $0.4~-1~M_{sun}$; $>1~M_{sun}$) are depicted in red. The observed spread in M_{acc} values in each mass bin is significantly larger than what can be accounted for by M_{acc} variability on week timescales.

log M(M_☉)

-0.5

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-10

On average, $M_{acc} \propto M^{1.25}$; a large scatter (2-3 orders of magnitude) in the M_{acc} values is observed at each mass. M_{acc} variability on a timescale of weeks cannot explain the observed spread. cnrs