

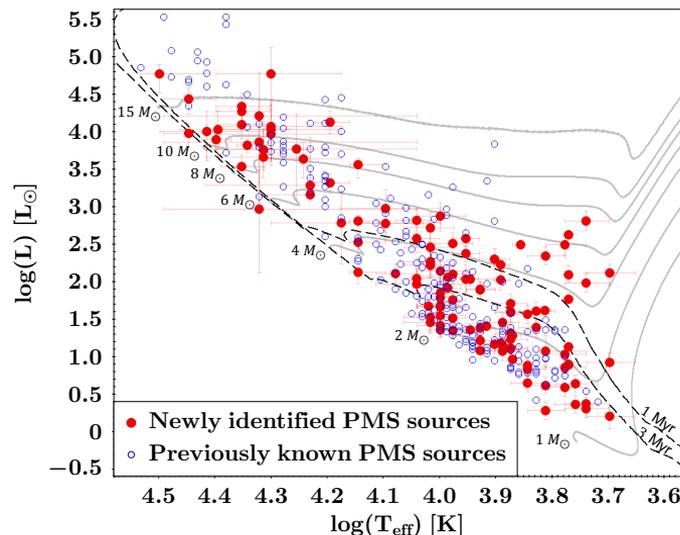
New massive pre-main sequence (PMS) stars identified

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Vioque et al. (2020) catalog of new intermediate- to high-mass PMS stars using machine learning techniques:

- Around 2000 new sources
- Precision of $\geq 85\%$
- Accessible at the [CDS/VizieR](https://cds.u-strasbg.fr/)

HR diagram



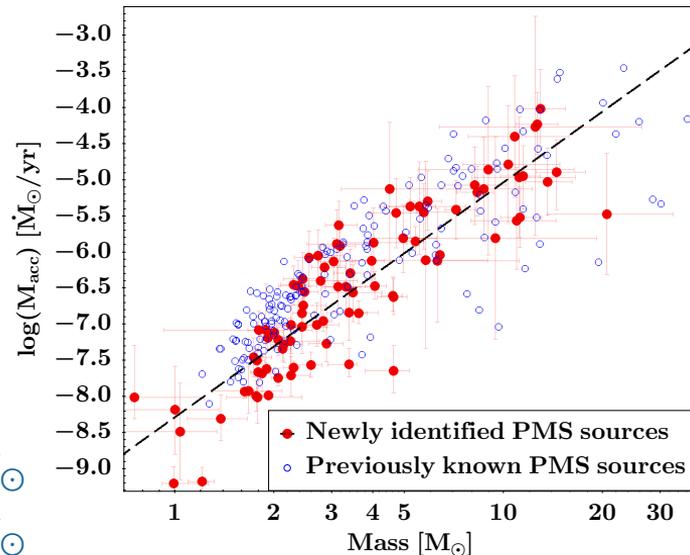
A small fraction was already spectroscopically confirmed as new Herbig Be/MYSO detections:

23 new sources with $M > 8 M_{\odot}$

49 new sources with $M > 4 M_{\odot}$

It is already a $\sim 50\%$ increment to the number of known objects of the class

Accretion rates



- What is the accretion mechanism of high-mass PMS objects and how does it differ from that of lower-mass stars?
- Does the accretion rate depend on the stellar environment?

Vioque et al. (in prep.)