# What if massive stars could produce lithium?

## Dorottya Szécsi

Humboldt Fellow at the University of Cologne



T ~ 4000 K

Lithium in the Universe Observatory of Rome, 19th November 2019

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Metal-poor: new types predicted

e.g. Szécsi+15, Szécsi+18, Szécsi+19

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#### They eject material via

- supernovae
- stellar winds
- binary interaction

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#### Theories:

Globular clusters' formation  $\rightarrow$  multiple populations



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- cool supergiants (e.g. <u>Szécsi</u>+18,19)

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simulated populations of them forming the 2nd generation in Glob.clusters



























Bennett, MSc Thesis (2018)