



Gaia-ESO Survey: Hot stars in Carina Nebula

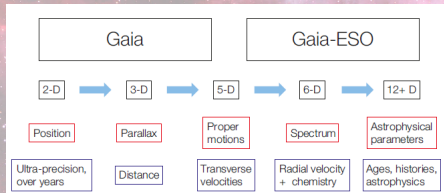
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L. Mahy

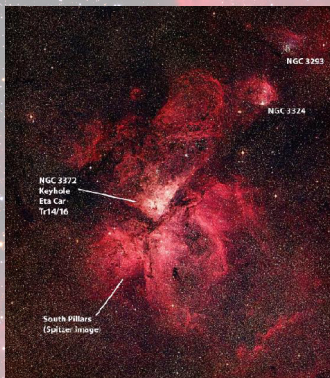
Description of GES

- Aims of GES:
 - provide the first homogeneous overview of the distributions of kinematics and elemental abundances.
 - quantify the formation history and evolution of all component of the Galaxy.



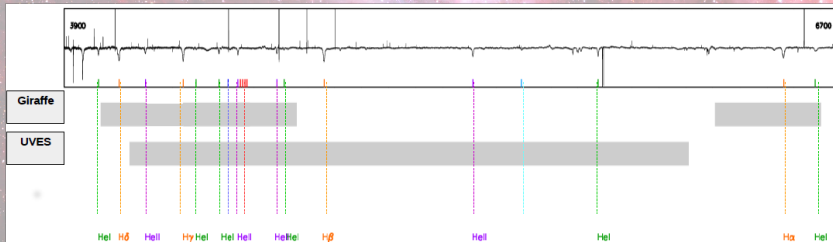
- Science with hot stars in GES:
 - Compare their position in the HR diagram with theoretical evolutionary tracks and isochrones.
 - critical tests of stellar evolution modelling.
 - Constrain the upper part of the Initial Mass Function (IMF).

Observations

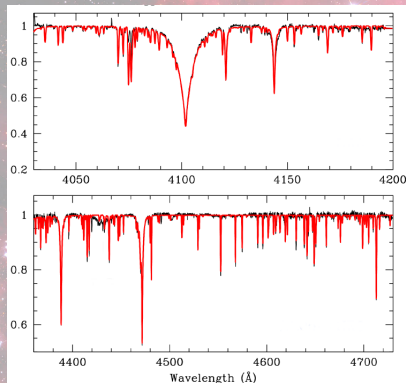


- Young open clusters in Carina Nebula
- FLAMES instrument:

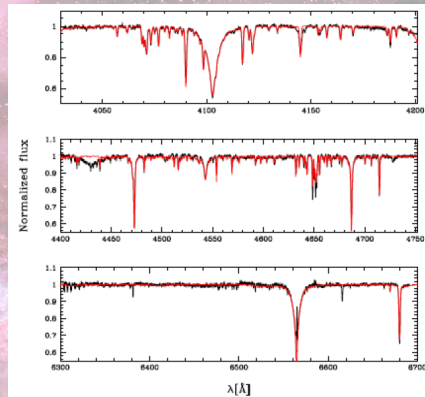
Grating	λ range (Å)
GIRAFFE	
HR03	4033-4201
HR04	4340-4587
HR05A	4340-4587
HR06	4538-4759
HR14A	6308-6701
UVES	
UVES 520	4140-6210



Results



$v_r = -10$ km/s
 $v \sin i = 25$ km/s
 $T_{eff} = 22842$ K
 $\log g = 3.81$



$v_r = -16$ km/s
 $v \sin i = 245$ km/s
 $T_{eff} = 32560$ K
 $\log g = 4.064$