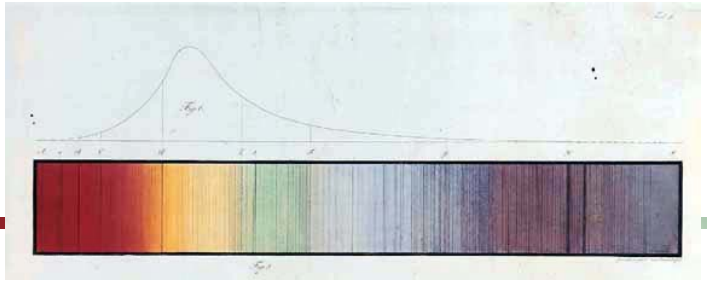
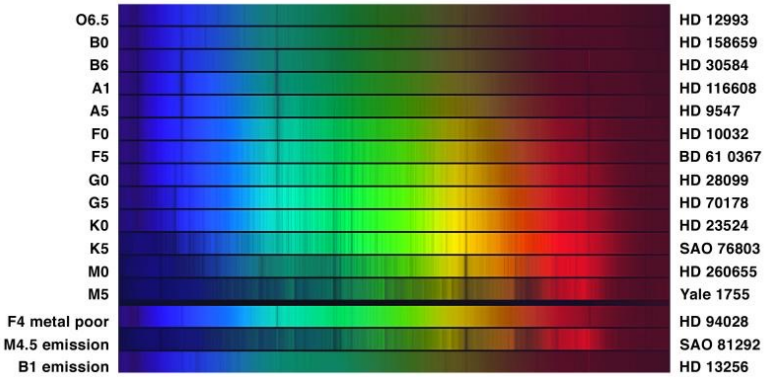
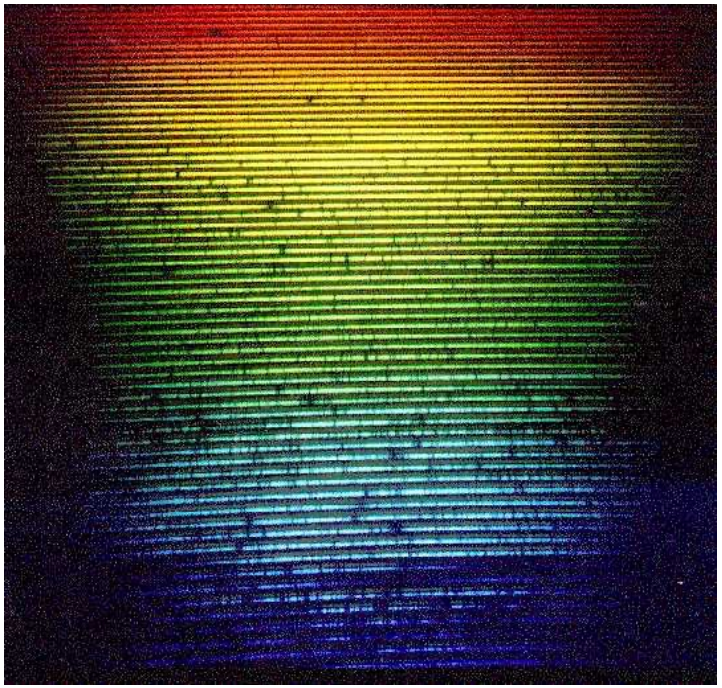
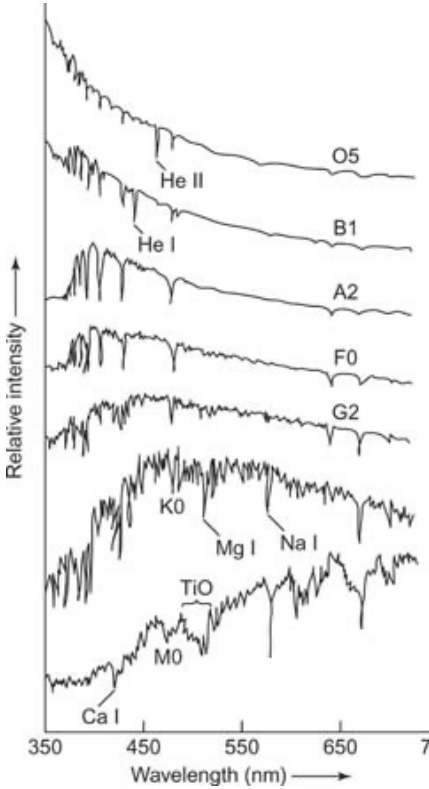
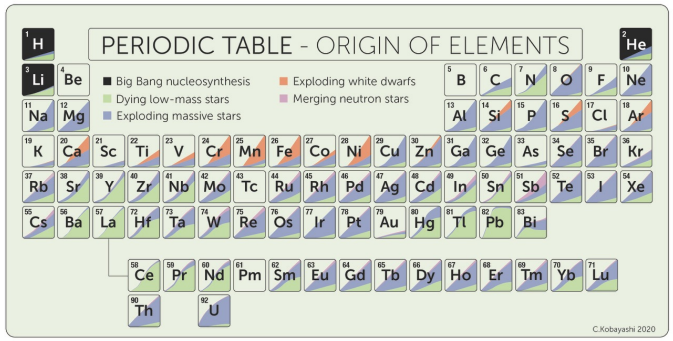


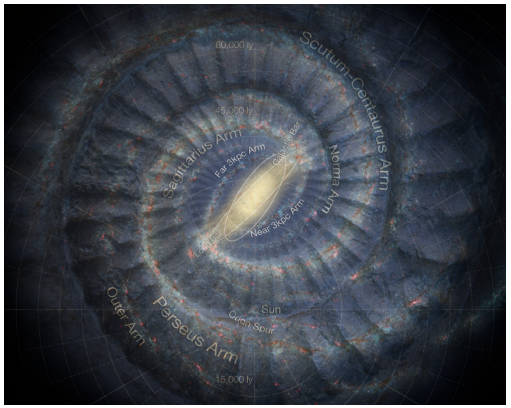

O6.5
B0
B6
A1
A5
F0
F5
G0
G5
K0
K5
M0
M5
F4 metal poor
M4.5 emission
B1 emission
HD 12993
HD 158659
HD 30584
HD 116608
HD 9547
HD 10032
BD 61 0367
HD 28099
HD 70178
HD 23524
SAO 76803
HD 260655
Yale 1755
HD 94028
SAO 81292
HD 13256

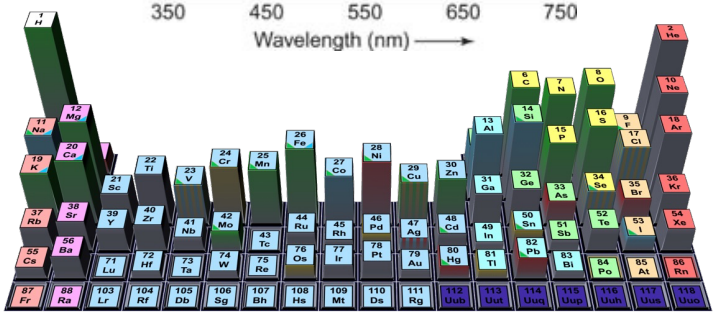


ChINOS2


Relative intensity
O5
He II
B1
He I
A2
F0
G2
K0
Mg I
Na I
TiO
M0
Ca I
350
450
550
650
750
Wavelength (nm)


PERIODIC TABLE - ORIGIN OF ELEMENTS
Big Bang nucleosynthesis
Dying low-mass stars
Exploding massive stars
Exploding white dwarfs
Merging neutron stars
C.Kobayashi 2020


Scutum-Centaurus Arm
Sagittarius Arm
Norma Arm
Perseus Arm
Outer Arm
Orion Spur
Sun



Welcome!

This summer school with hands-on stellar spectroscopy is sponsored by the DZA (the recently established Center for Astrophysics, Germany) and ChETEC-INFRA, the European Network for Nuclear Astrophysics and its Infrastructures* (2020-2025).

* You will get to know two of ChETEC-INFRA's astronomical infrastructures this week.

Vila Lanna

Vila Lanna

Aims of this school

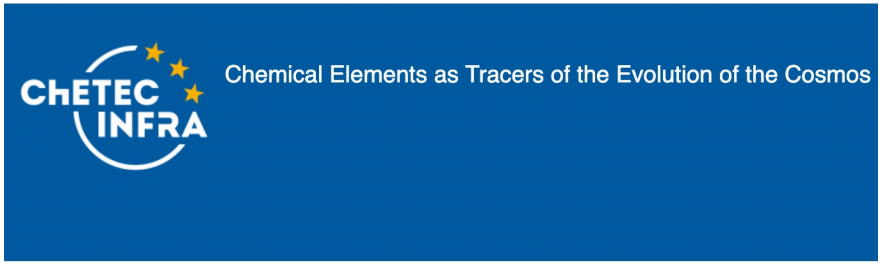
ChETEC-INFRA = **Ch**emical **E**lements as **T**racers of the **E**volution of the **C**osmos -- **Infra**structures

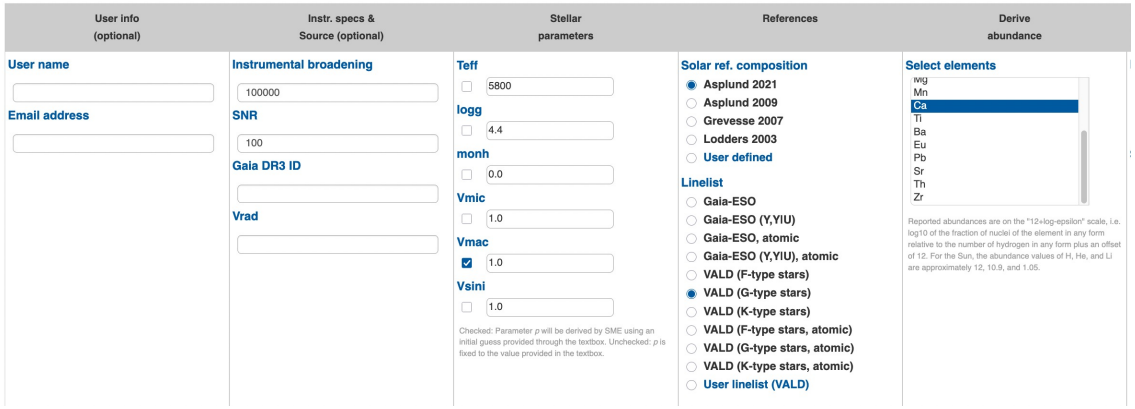
To gain some hands-on experience with the astronomical technologies and methodologies which give access to cosmic abundances, i.e., spectroscopy.

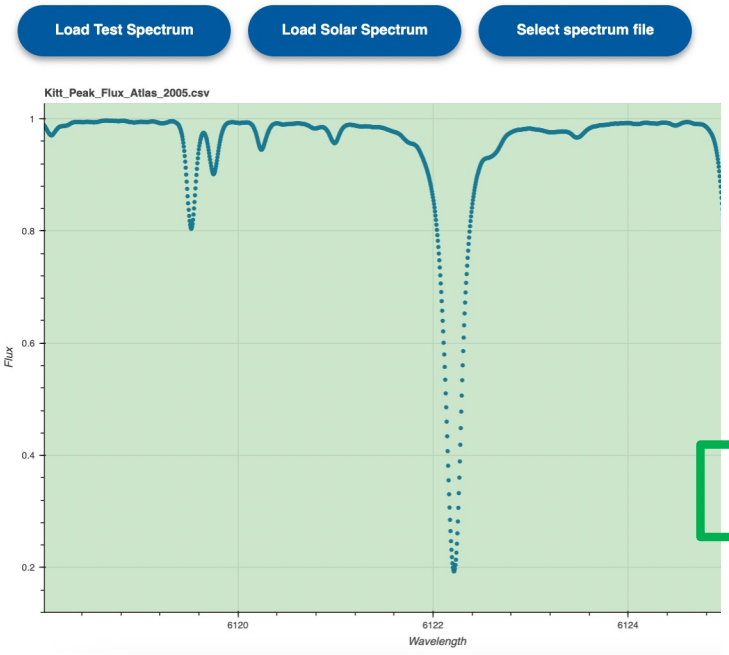
To this end, we will use FIES on the Nordic Optical Telescope (NOT) on La Palma, The Canaries, and analyse the data with tools developed as part of ChETEC-INFRA.

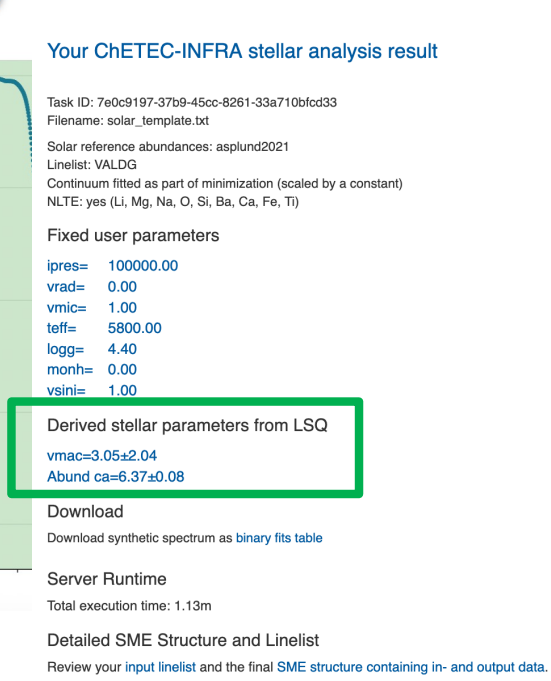
It will be a busy week, day and night!

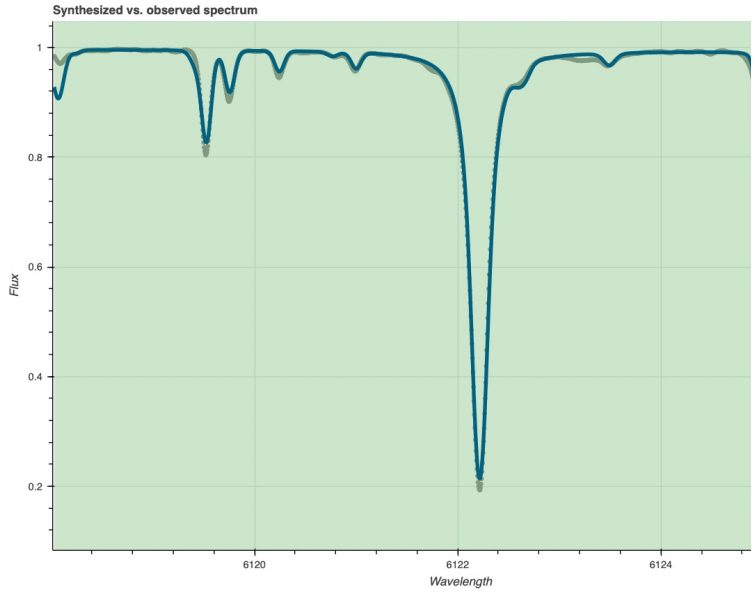
From spectrum to stellar abundances











Let's start with a round of

introduction

Who are you?

Where are you from?

Physicist, astronomer, astrophysicist?

At which stage of your career are you presently?

What in particular are hoping to learn this week?