

5th forum of Action Fédératrice Etoiles (AFE)

November 13, 2017

at the "salle de conférence du château" of the Meudon Observatory

The goal of this AFE day is to present AFE to new members of the Paris Observatory, the results from scientific actions funded by AFE in 2017, as well as the work of teams participating in AFE to trigger new collaborations and projects for 2018.

Programme:

10h00-10h15 : *Welcome coffee*

10h15-10h25 : **Coralie Neiner**: The role, goal, and budget of AFE

10h25-10h50 : **Alexander Martin**: The evolution of magnetic fields from the main sequence to very late stages

10h50-11h15 : **Victor Atilio Marchiori**: Aperture photometry on PLATO target stars

11h15-11h40 : **Morgan Deal**: Impact of atomic diffusion in main sequence stars

11h40-12h05 : **Christophe Sauty**: Magnetospheric accretion and jets, from simulations to observations.

12h05-14h00 : *Lunch*

14h00-14h25 : **Benoît Mosser**: The fine structure of the red clump

14h25-14h50 : **Frédéric Royer**: Normal fast rotating A- and B-type stars seen pole-on

14h50-15h15 : **Georges Alecian**: Improvement of stellar models including atomic diffusion

15h15-15h40 : **Zakaria Meliani**: Stellar bubbles dynamics in the presence of cosmic radiation

15h40-16h00 : *Coffee*

16h00-16h25 : **Nicole Feautrier**: Atomic and molecular physics for modelling of stellar spectra

16h25-16h50 : **Letizia Capitanio**: Three-dimensional mapping of the local interstellar medium

16h50-17h20 : **Discussion**

Members of the AFE office:

- Franck Delahaye (LERMA)
- David Katz (GEPI)
- Claire Michaut (LUTH)
- Coralie Neiner (LESIA) – AFE chair

→ *Do not hesitate to contact the representative of your laboratory at the AFE office to get more information about AFE or the AFE day (or contact the AFE chair, if you are a member of a laboratory that is not represented at the AFE office).*