

STARs at the Extreme

Sierre, 25-26 October 2021

Monday 25

- 13 :00 – 13 :30 **Arrival of participants**
- 13 :30 – 14 :00 **An overview of the STAREX project**
Georges Meynet
- 14 :00 – 14 :30. **General architecture of GENEC and other tools**
Sylvia Ekström
- 14 :30 – 15 :00. **News on convection in stars**
Cyril Georgy
- break*
- 15 :30 – 16 :00 **321D: The case of turbulent entrainment.**
Raphael Hirschi
- 16 :00 – 16 :30 **Asteroseismology of Beta Cephei stars**
Sébastien Salmon
- 16 :30 – 17 :00 **Angular momentum transport: magnetic instabilities and
asteroseismic constraints**
Facundo Moyano
- 17 :00 – 17 :30 **Opacity profiles from helioseismic inversion techniques and
the solar modelling problem**
Gaël Buldgen
- break*
- 18 :00 – 18 :45. **Eddington: investment in Physics and burst of discoveries.**
André Maeder

Dinner at Château Mercier

Tuesday 26

- 7 :00 -- 8 :00. **Breakfast**
- 8 :00 -- 8 :30 **Inversion techniques and their applications**
Jérôme Bétrisey
- 8 :30 -- 9 :00 **Star-planet interaction: the key role of the host star's rotational history on the evolution of TOI-849b**
Camilla Pezzotti
- 9 :00 -- 9 :30 **Supermassive stars as the progenitors of supermassive black holes**
Lionel Haemmelé
- 9 :30 -- 10 :00 **Supermassive stars forming by accretion in atomically cooled halos: evolution towards the dynamical instability**
Devesh Nandal
- 10 :00 -- 10 :30 **Physics of Very Massive Stars along the Cosmic History**
Sébastien Martinet
- break*
- 11 :00 -- 11 :30 **The AMUSE library**
Steven Rieder
- 11 :30 -- 11 :50 **Towards new models for Pop III stars**
Sophie Tsiaziou
- 11 :50 -- 12 :00 **First steps for modeling explosive nucleosynthesis**
Luca Sciarini
- 12 :00 -- 12 :30 **Metal enrichment from winds and explosion of PopIII stars**
Yves Sibony
- Lunch at Château Mercier**
- 13:30 -- 17:00 **Excursion in the vineyard above Sierre**