ULLYSES sets sail
massive star spectroscopy with the HST and the ESO VLT

On-line Mini-Workshop

The key science goals of the mini-workshop are:

• to solidify the XShootU collaboration;
• to coordinate future observational campaigns;
• to review spectroscopic analysis techniques in UV and optical;
• to provide a forum for young scientists working on massive star spectroscopy.

The workshop deliverables are:

• internal paper presenting the data overview and spectroscopic library;
• internal paper on code-benchmarking strategy and template objects;
• memo on the statistical methods applicable in the XSHootU framework;
• memo on the publication strategy and collaboration philosophy;
• memo on future and supplementary observations.

The deliverables will be produce by the following working groups:

1. WG1 Data driven science (Team lead: Hugues Sana)
2. WG2 Stellar atmosphere modes: NLTE wind models and code benchmarking (Team lead: Jean-Claude Bouret)
3. WG3 Stellar wind physics: rotation, clumping, DACs, hydrodynamics. MC codes (Team lead: Joahim Bestenlehner)

Prior to the workshop, participants will be asked to indicate their interest in working groups. The working groups are flexible, and migration from group to group is encouraged. The Workshop will have three on-line sessions on Monday (13 Dec), Wednesday (15 Dec), and Friday (17 Dec) from 3pm to 6pm. The practical work on projects is foreseen on Tuesday (14 Dec) and Thursday (16 Dec)

• 13 December – Day 1
  – 15:00 – 15:15 Presentation: the workshop goals and what we want to achieve L. Oskinova & J. Vink
  – 15:15-15:30 WG1 Hugues Sana
  – 15:30-15:45 WG2 Jean-Claude Bouret
  – 15:45-16:00 WG2 Joahim Bestenlehner
  – 16:00-16:20 Coffee-break
– 16:20-17:00 The first results from the ULLYSES spectra Calum Hawcroft
– 17:00-18:00 Work in split room and setting the goals for off-line work on Tuesday

**15 December – Day 2**
– 15:00 – 15:20 Presentation WG1
– 15:20 – 15:40 Presentation WG2
– 15:40 – 16:00 Presentation WG3
– 16:00-16:20 Coffee-break
– 16:20-17:00 Optical spectroscopy of ot massive stars Varsha Ramachandran
– 17:00-18:00 Work in split room and setting the goals for off-line work on Thursday

**17 December – Day 3**
– 15:00 – 16:00 Work in split room
– 16:00-16:30 Coffee-break
– 16:30-17:30 WG presentations
– 17:30-18:00 Summary and virtual get together