

W-303, “MUSE 24th Busyweek”

Scientific report

The MUSE 24th Busyweek (BW) took place from the 17th to the 21st of October in Leiden with a total of 45 attending researchers. The BW has plenary and parallel sessions. These last ones were more focused working sessions on specific GTO programs, but also to discuss future follow-up ideas using e.g. JWST. As usual, in the plenary sessions we had a GTO status report. The last observations in the frame of the MUSE guaranteed time will be taken during this semester. They will be devoted to complete several GTO programs (MUSCATEL - high redshift, globular clusters, and ultra-faint dwarf galaxies) as well as new programs exploiting the power of the AO-assisted narrow field mode (green pea-like galaxies, a lensed Lyman alpha emitter, two quasars). Besides, we had ~20 contributed talks presenting on-going paper projects. On the last day, we had a debriefing of the different parallel sessions. A highlight from both this debriefing and the meeting as a whole, is the announcement of a whole renovation of the MUSE executive board. The actual change will happen during the next Busyweek in Aussois (France).

Final program

Mon, 17 Oct 2022

- 15:30 Ana Monreal Ibero: Welcome and organisational matters
- 15:45 Michael Maseda: JWST/NIRSpec studies of MUSE LAEs
- 16:10 Planning of Parallel Sessions
- 16:30 Coffee Break
- 17:00 Parallel Sessions / Unscheduled
- 17:00 AMUSED demo (Roland Bacon)
- 17:30 Future JWST proposals (Michael Maseda).

Tue, 18 Oct 2022

- 09:30 Lutz Wisotzki: GTO status report
- 09:40 Roland Bacon: On the future of the MUSE collaboration
- 10:00 Short Presentations of Paper Projects (10min each):
 - Constanza Muñoz López: Stellar angular momenta of intermediate redshift galaxies (new)
 - Yucheng Guo: The average Ly α surface brightness profile (new)
 - Maxime Cherrey: CGM properties in dense environments (completed)
 - Josie Kerutt: Lyman continuum leakers (completed; outside of Publication Policy)
- 11:00 Coffee Break
- 11:30 Parallel Sessions / Unscheduled
 - MUSCATEL: Catalogs and classification - next steps (Tanya Urrutia) presentation
- 13:00 Lunch Break
- 14:30 Parallel Sessions / Unscheduled
 - Mg II outflow (paper project; Yucheng Guo)
- 16:30 Coffee Break
- 17:00 Parallel Sessions / Unscheduled
 - Meeting of the Executive Board

Wed, 19 Oct 2022

- 09:30 Super-short updates on Paper Projects (4min each):
 - Wilfried Mercier (remote)
 - Marilyn Latour (remote)
 - Jorryt Matthee (remote)
 - Eloise Vitte (remote): Exotic LAEs in MXDF
 - Thi Thai Tran (remote): LF of LAES
 - Yohana Herrero Alonso: Satellite contribution to extended Ly α halos
 - Ilias Goovaerts LAE/LBG Interrelation towards reionisation
 - Jarle Brinchmann, Antlia B update 2 papers
- 10:30 Short Presentations of Paper Projects (10min):

- Elisa Todarello: Bounds on Axion Dark Matter (remote)
- 11:00 Coffee break
- 11:30 Parallel Sessions / Unscheduled
 - LyC leakage at $z \sim 6$ (paper project; Anne Verhamme, Kanak Saha) - tbc
- 13:00 Lunch; afterwards: Free afternoon
- 19:00 Busy Week Dinner

Thu, 20 Oct 2022

- 09:30 Short Presentations of Paper Projects (10min):
 - Elena Balakina: Search for an IMBH within the Galactic globular cluster 47 Tuc (new; remote)
 - Ivan Kramarenko: Linking UV spectral properties of MUSE LAEs at $z > 3$ to potential LyC escape (new)
 - Daniel Vaz: Leo T dissected with MUSE (completed)
 - Fabian Göttgens: Machine-learning supported classification of giant star spectra into multiple populations (new)
- 11:00 Coffee break
- 11:30 Parallel Sessions / Unscheduled
 - MUSCATEL: qtClassify demo and tutorial (Tanya)
- 13:00 Lunch break
- 14:30 Parallel Sessions / Unscheduled
 - Exotic LAEs (Eloise Vitte)
- 16:30 Coffee Break
- 17:00 Parallel Sessions / Unscheduled
 - LSDCat 2.0 + Selection Function (Christian Herenz)

Fri, 21 Oct 2022

- 09:30 Debriefing from parallel sessions and working group meetings
- 10:00 Closing discussion
- 11:00 Coffee break
- 11:30 Parallel Sessions / Unscheduled
- 13:00 Lunch break, end of Busy Week

Financial statement

Following, I include the list of expenses and incomes, as for today.

Incomes

- Registration fees from the participants (from Paylogic): 8.402,05€
 - NWO funding Scientific Meetings and Consultations: 2500 €
- Total: 10.902,05 €
- Expected from NOVA: up to 4000€

Expenses

- Golden Tulip (rental of the rooms, coffee break, dinners, lunches,...): 9.724,50 €
 - Visit to the Old Observatory: 180,00 €
 - Visit to Hortus Botanicus: 105,51 €
 - Sticing Gilde Leiden: 50 €
 - Dinner at Koetshuis & Grand Café de Burcht: 1.417,50 €
- Total: 11.477,51 €

Total_expenses - Total_incomes = 575,46 €

This is considerably less than what we initially requested, partially because we were quite conservative calculating the registration fee, partially because some of the participants attended on-line. All the foreseen invoices have already been paid. In principle, to cover the whole expenses of the BW, there is a need for only 575,46 € from NOVA. However we request a bit more, **1000 €**, to have some buffer for some last and unforeseen expenses.