

| Time          | Monday, 18/09                                             | Tuesday, 19/09                                                                                                    | Wednesday, 20/09                                                                                | Thursday, 21/09                                                                                   | Friday, 22/09                                          |
|---------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|               | Lorentz Centre @ Snellius                                 | Lorentz Centre @ Snellius                                                                                         | Lorentz Centre @ Snellius                                                                       | Lorentz Centre @ Snellius                                                                         | Lorentz Centre @ Snellius                              |
| 9:00 - 9:20   | Registration and coffee                                   | Coffee machine opens                                                                                              | Coffee machine opens                                                                            | Coffee machine opens                                                                              | Coffee machine opens                                   |
| 9:20 - 9:40   |                                                           | Modelling early stellar feedback in cosmological simulations<br>[ Sylvia Ploeckinger ]                            | Cosmological Zoom-in Simulations of Dwarf Galaxies in Diverse Environments<br>[ Jemima Briggs ] | Stellar streams in the deforming dark matter haloes of the MW and the LMC<br>[ Sophia Lilleengen] | Work in group                                          |
| 9:40 - 10:00  |                                                           | Manifestly isotropic energy and momentum feedback for SNe modelling<br>[ Yolán Uyttenhove ]                       | Balancing the unbalanced: Updates on zoom development in SWIFT<br>[ Will Roper ]                | Enhancing Galaxy Simulations through Adaptive Softening<br>[ Lieuwe de Regt ]                     |                                                        |
| 10:00- 10:20  |                                                           | How does a multi-phase ISM model affect the rotation curves of simulated low-mass galaxies?<br>[ Katharina Kain ] | Particle tracking for substructure identification<br>[ Victor Forouhar ]                        | Simulating galaxy formation with spinning black holes and their winds and jets<br>[ Filip Husko ] | Call the SWIFT doctor<br>[Mladen, Will, Matthieu, ...] |
| 10:20 - 10:40 |                                                           | The FLAMINGO model<br>[ Roi Kugel ]                                                                               | GPU acceleration in SWIFT<br>[ Sarah Johnston ]                                                 | SWIFT vs GADGET: energy consumption as a new performance metric.<br>[ Victor Forouhar ]           | +<br>Work in groups                                    |
| 10:40 - 11:00 |                                                           | Welcome from Lorentz Centre                                                                                       | Coffee break                                                                                    | Coffee break                                                                                      | Coffee break                                           |
| 11:00 - 11:20 | Code status and plans for the week<br>[Matthieu Schaller] | On the fly x-rays with SWIFT<br>[ Joey Braspenning ]                                                              | MHD: Direct Induction Implementation<br>[ Orestis Karapiperis ]                                 | SWIFT 2 : Keeping the Good, Discussing the Bad, Removing the Ugly<br>[ Mladen Ivkovic ]           | Discussion<br>+<br>Work in groups                      |
| 11:20 - 11:40 |                                                           | SWIFT-SIMBA status<br>[ Romeel Davé ]                                                                             | SPMHD: There is a need of Vector Potentials?<br>[ Federico Stasyszyn ]                          | SIDM in SWIFT<br>[ Camila Correa ]                                                                |                                                        |
| 11:40 - 12:00 |                                                           | Tagging gas particles on-the-fly with the properties of their donor galaxies<br>[ Christopher Rowe ]              | Monitoring B field divergence errors in SWIFT<br>[ Nikyta Shchutskyi ]                          | Cosmological Simulations of SIDM<br>[ David Harvey ]                                              | Wrap-up and future plans<br>[Organisers]               |
| 12:00 - 12:20 | Discussion                                                | An improved subgrid reionisation model<br>[ Louise Seeayve ]                                                      | swiftsimio + swiftgalaxy + i/o<br>[ Kyle Oman ]                                                 | WDM may result in more low-mass galaxy detections in 21-cm surveys than CDM<br>[ Kyle Oman ]      |                                                        |
| 12:20 - 13:30 | Lunch break                                               | Lunch break                                                                                                       | Lunch break                                                                                     | Lunch break                                                                                       |                                                        |
| 13:30 - 14:00 |                                                           |                                                                                                                   |                                                                                                 |                                                                                                   |                                                        |
|               | Lorentz Centre @ Snellius                                 | Lorentz Centre @ Snellius                                                                                         | Lorentz Centre @ Snellius                                                                       | Lorentz Centre @ Snellius                                                                         |                                                        |
| 14:00 - 15:00 | Introduction to cosmo sims in SWIFT<br>[Will Roper]       | Code developement best practices generally and in SWIFT<br>[ Mladen Ivkovic ]                                     | swiftsimio and analysis hands-on<br>[ Kyle Oman ]                                               | AGORA: Comparative galaxy formation<br>[ Yves Revaz ]                                             |                                                        |
| 15:00 - 15:30 | Coffee break                                              | Coffee break                                                                                                      | Coffee break                                                                                    | Coffee break                                                                                      |                                                        |
| 15:30 - 16:00 | Hands-on session                                          | Work in groups                                                                                                    | Work in groups                                                                                  | What is missing to match high-z JWST?<br>[Will Roper, ... ]                                       |                                                        |
| 16:00 - 16:30 |                                                           |                                                                                                                   |                                                                                                 |                                                                                                   |                                                        |
| 16:30 - 17:00 |                                                           |                                                                                                                   |                                                                                                 |                                                                                                   |                                                        |
| 17:00 - 17:30 | Welcome reception                                         |                                                                                                                   | Boat tour @ Liedse Rederij                                                                      |                                                                                                   |                                                        |
| 17:30 - 18:00 |                                                           |                                                                                                                   |                                                                                                 |                                                                                                   |                                                        |
| 18:00 - 18:30 |                                                           |                                                                                                                   | Dinner @ Koetshuis De Burcht                                                                    | Oort lecture (Françoise Combes)<br>@ Academy Building                                             |                                                        |
| 18:30 - 20:00 |                                                           |                                                                                                                   |                                                                                                 |                                                                                                   |                                                        |
| 20:00 - 21:00 |                                                           |                                                                                                                   |                                                                                                 |                                                                                                   |                                                        |

colour legend

Discussion or hands-on session

Lunch or coffee break

Talk 20 min - recommended 15 + 5

Other sessions

colour legend

Discussion or hands-on session

Lunch or coffee break

Talk 20 min - recommended 15 + 5

Other sessions

Zoom link:

<https://universiteitiden.zoom.us/j/68435648637?pwd=WnkvVk9UemFIWVZzWGE5UmxWa0Z0Zz09>

Meeting ID: 684 3564 8637

Passcode: G?gq+5qj