



Roseland
Centre
for Solar
Physics

ALMA-SOL-IMG¹

1st International Workshop on Solar Imaging with ALMA

RoCS, UiO – March 2 – 6, 2020





CHALLENGES

- Solar observing is a **non-standard** mode
 - ➔ Delivered data products not science-ready (demands extra work)
- Observations of the Sun **different** from observations of other targets
 - ➔ Solar observing is a very special case for ALMA
 - ➔ Remaining **technical challenges**
- ➔ Imaging of solar ALMA observational data is **still challenging** and demands expertise in mm astronomy + handling of interferometric data
- ➔ PIs without that expertise struggle and need help

WORKSHOP GOALS



OUR MISSION:

- Discuss and resolve the problems of solar image synthesis.
 - Make science-ready ALMA observations of the Sun accessible for non-expert users
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- ➔ Review the current status
 - ➔ Hands-on work on exemplary data sets

Monday, 2 March 2020

SCHEDULE



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- 10:00 – 10:10 Welcome address / Information from LOC
- 10:10 – 11:00 Overview of synthesis imaging, deconvolution, and self-calibration, T.Bastian
- 11:00 – 11:30 Summary of the current solar calibration in the QA2 process and its problems/
Single-Dish, I. Skokic
- 11:30 – 12:00 Summary of the current solar calibration in the QA2 process and its problems/
Interferometer, M. Shimojo
- 12:00 – 13:30 Lunch Break
- 13:30 – 15:15 Status report of the development of solar image synthesis
– From EU-ARC: M. Barta
– From JAO/ESO: N. Phillips
– From EA-ARC: M. Shimojo
– From U. of Oslo: M. Szydlarski
- 15:15 – 15:30 Single-dish mapping, S. White
- 15:30 – 16:00 Coffee Break
- 16:00 – 16:30 Development of tools for solar research with ALMA at RoCS: S. Wedemeyer
- 16:30 – 17:00 Discussion – Aims of the Workshop and development priorities
- 17:30 – 19:30 Reception

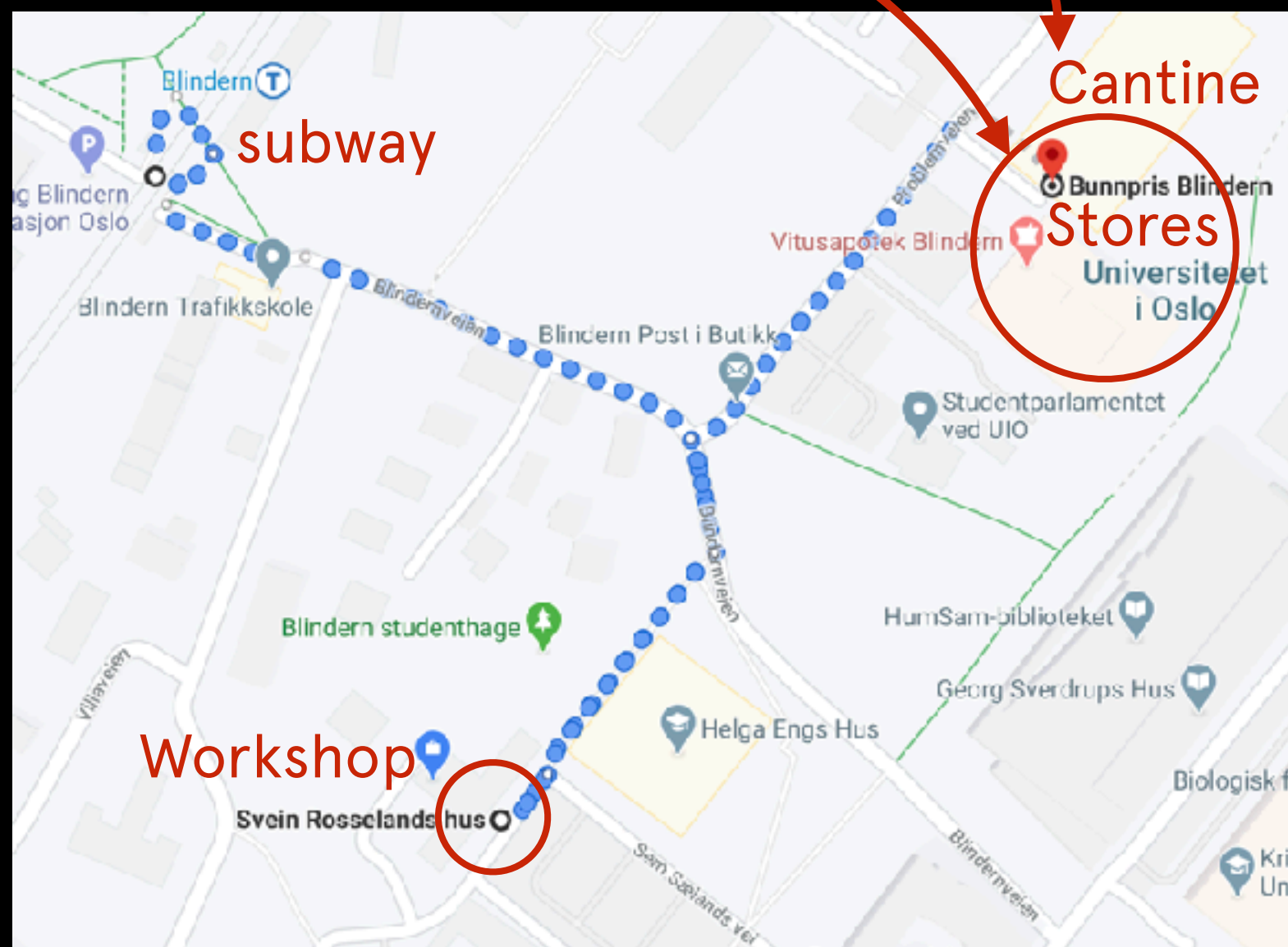
PRACTICAL INFORMATION



- **Catering:** lunch Monday – Thursday + light food for reception
Friday: Options on campus (e.g., main canteine)
- Food, pharmacy, office supplies on campus

- **Wireless network:**
 - eduroam
 - uioguest

- User accounts for access to local IT services





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