LOFAR's partial solar eclipse

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ASTRON, Dwingeloo, The Netherlands

LOFAR Status Meeting 2015-04-01

Plan

Simultaneously perform:

- LBA_OUTER observation all Dutch stations for Solar KSP / Chistian Vocks et al.
- LBA beamformed dynamic spectrum with one international station
- HBA beamformed dynamic spectrum with another international station
- HBA_ONE observation with core for pretty pictures

Some minor issues:

- Multiple parallel observations not officially offered.
- Scheduler does not support simultaneous observations with overlapping subsets of stations.
- LBA_OUTER requires ring splitter OFF
- HBA_ONE requires ring splitter ON

Method

- Cobalt supports multiple independent observations
- Stations support multiple independent observations
- MoM doesn't care
- We need resource assignment in scheduler
- HBA_ZERO network out == LBA_OUTER network out
- If only we could tell system to only use lower 24 LBA antennas...

Method

- Remove StationControl from default template
- Import new default template in MoM
- Specify LBA_OUTER and HBA_ONE with non-overlapping observation times
- Assign resources in Scheduler
- Schedule observations
- In OTB: change start times directly in DB
- Do *not* touch Scheduler until obs are over
- Really...
- Let SAS/MAXC and StationControl handle HBA_ZERO
- Start shell script to setup LBA_OUTER beams on stations seconds before obs start
- Because we did not lie to Cobalt (the only system we did not lie to), all obs will be ingestible into LTA!

HA!

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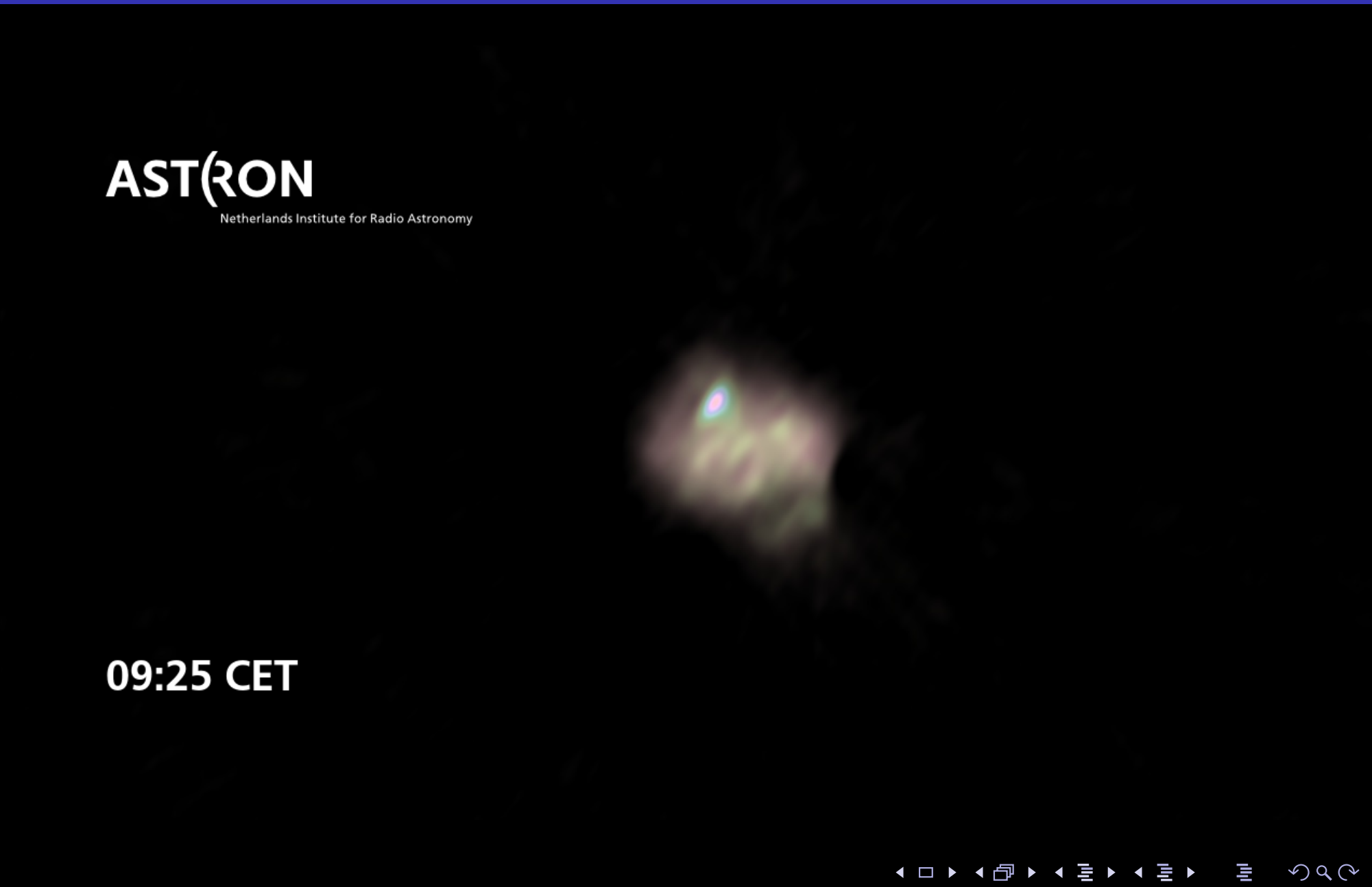

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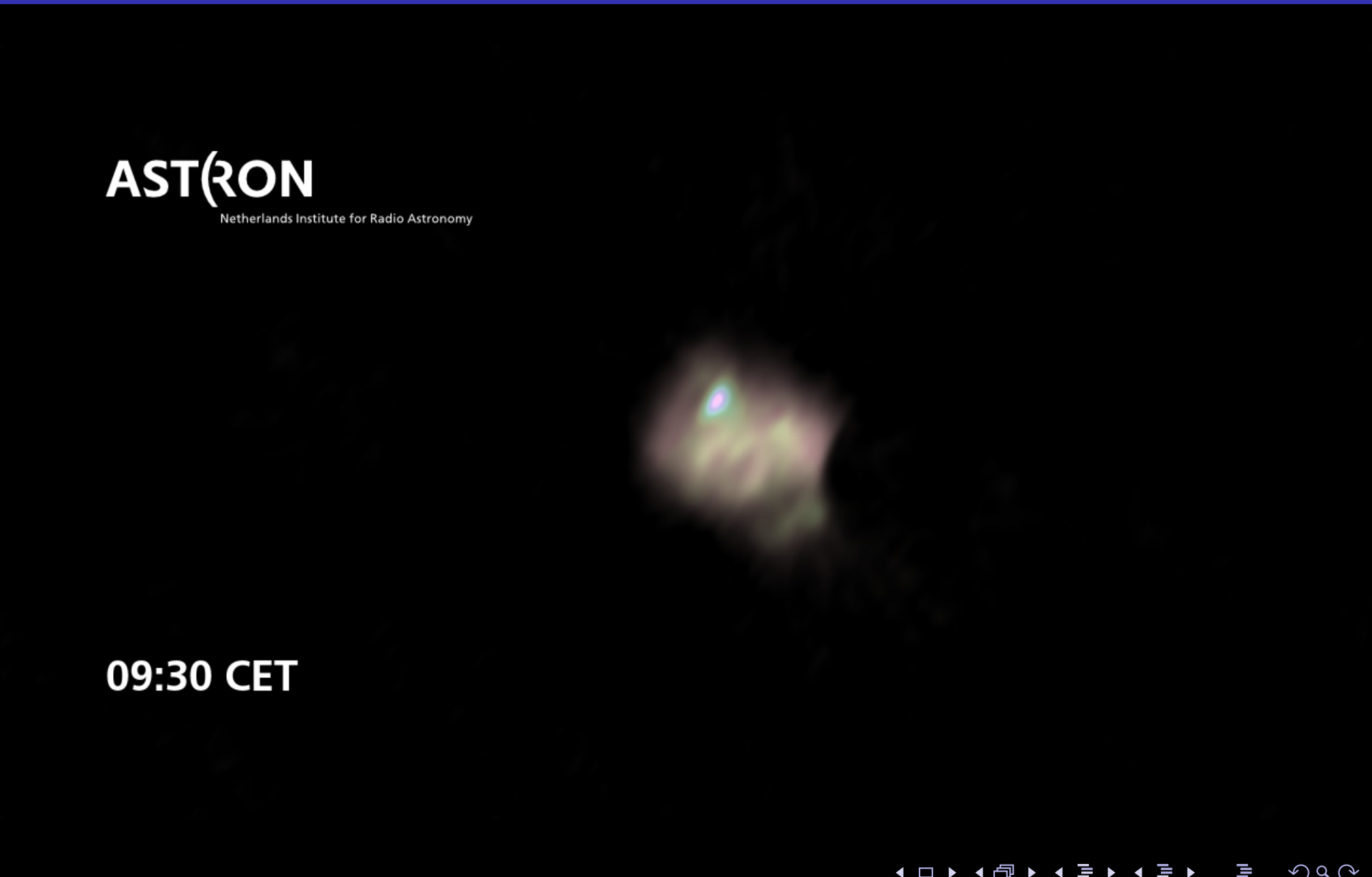

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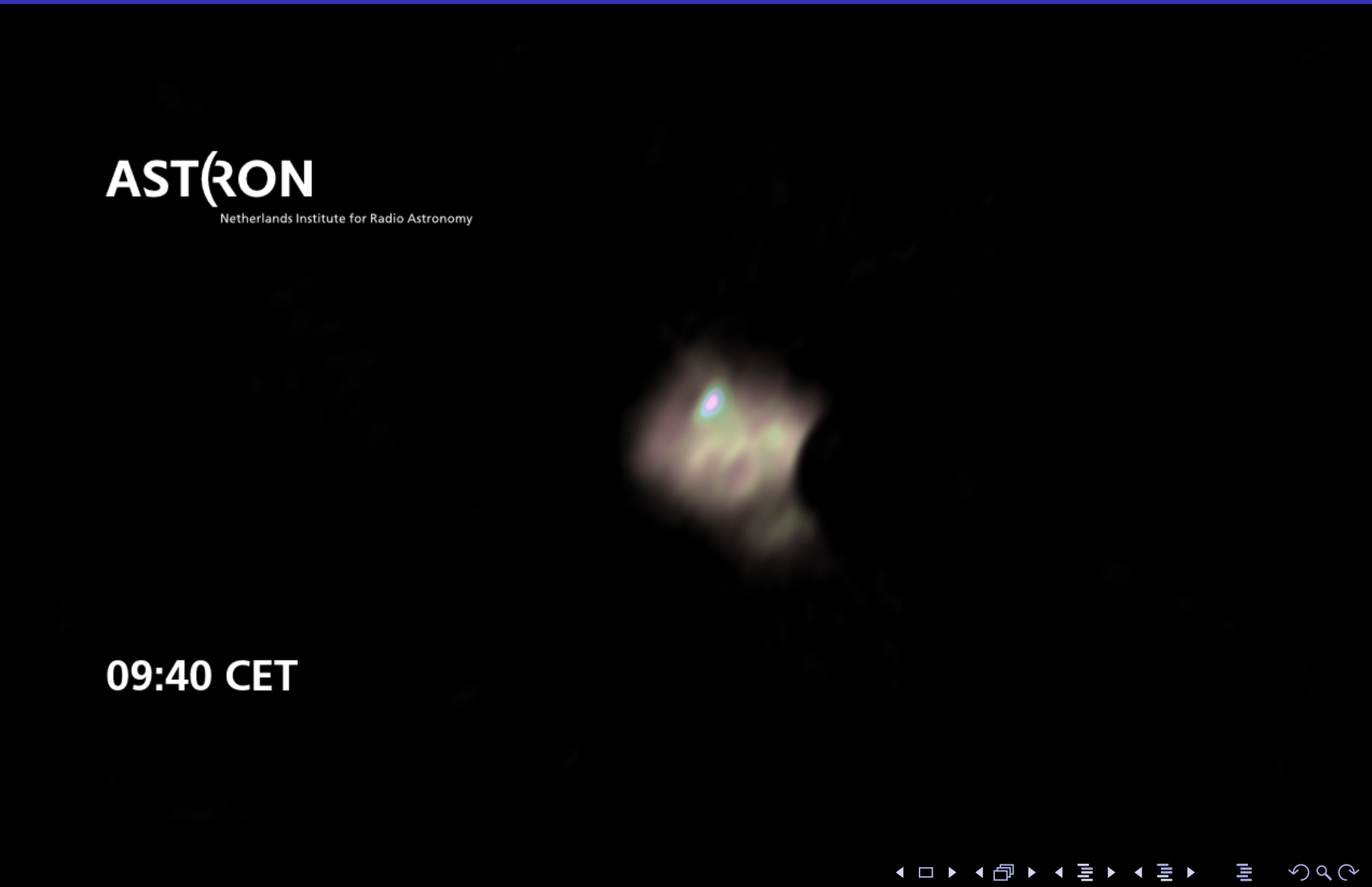

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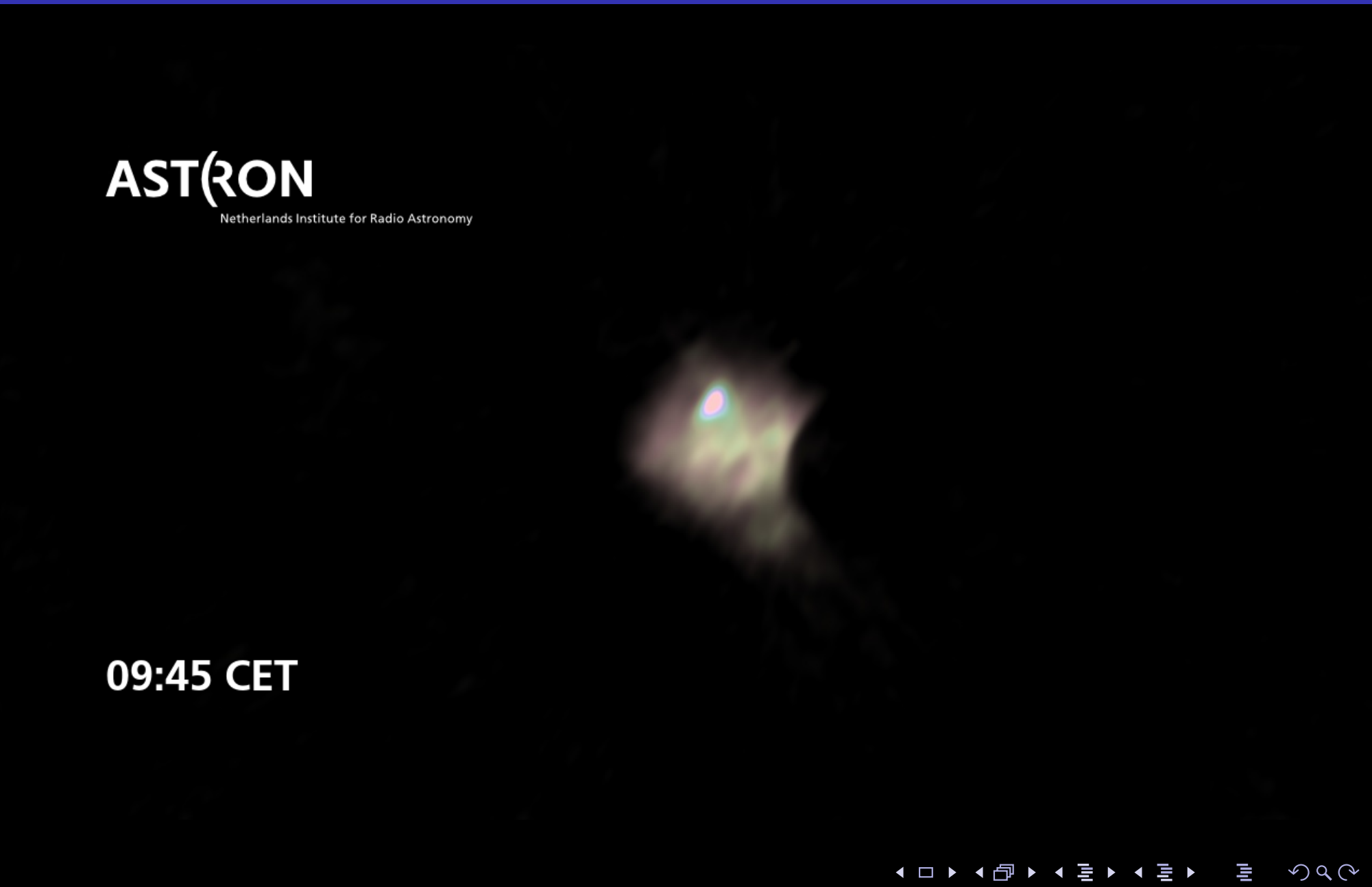

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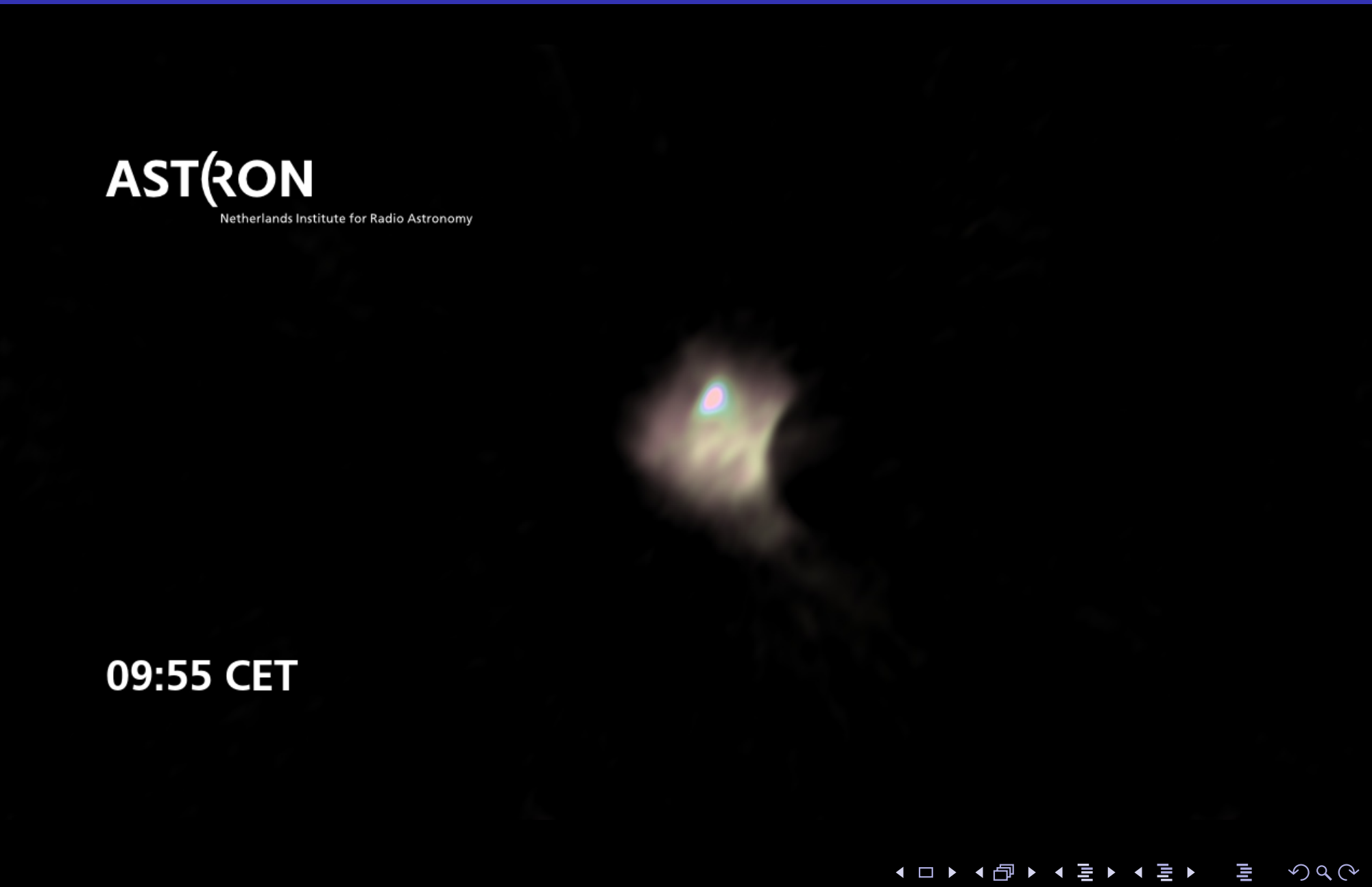

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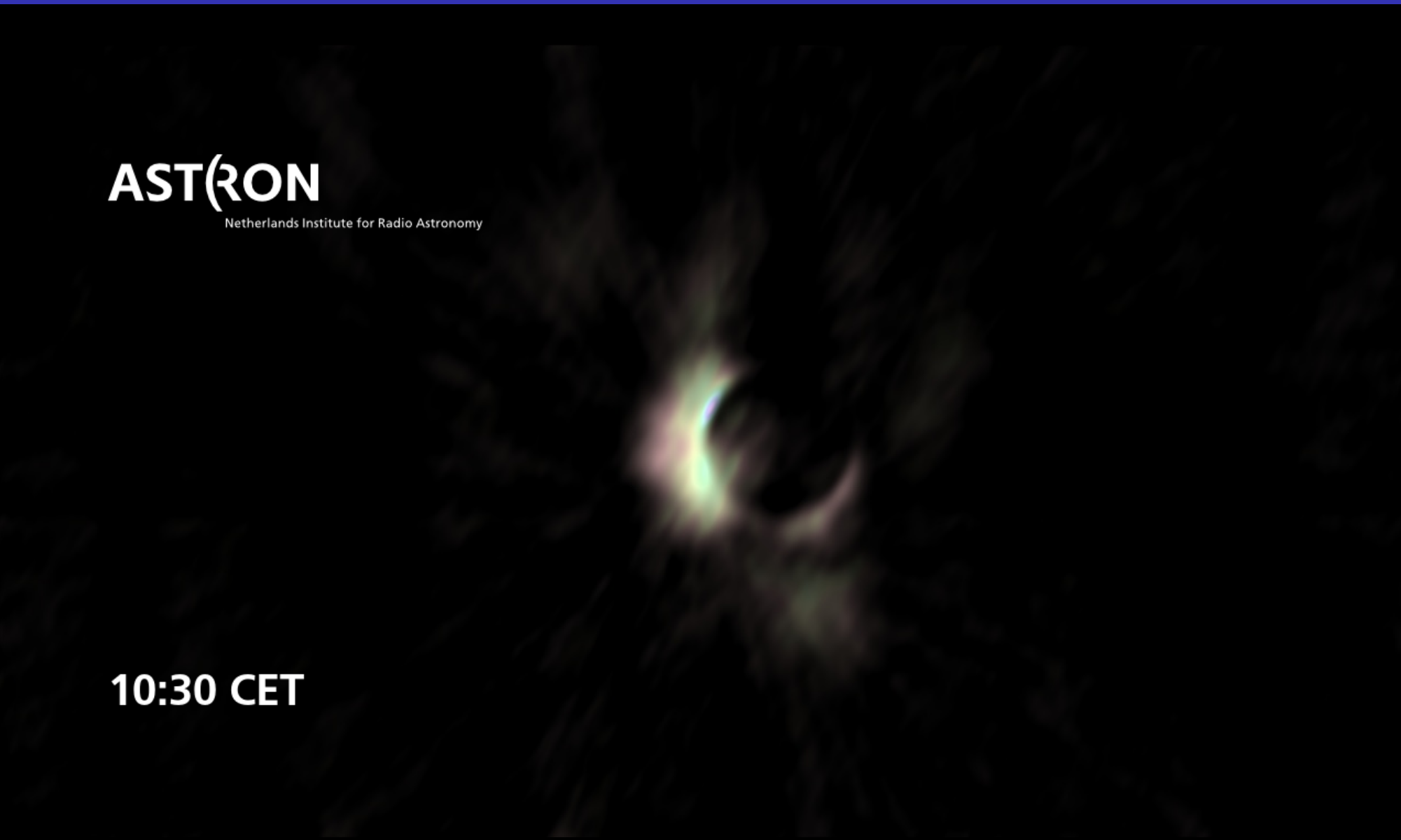

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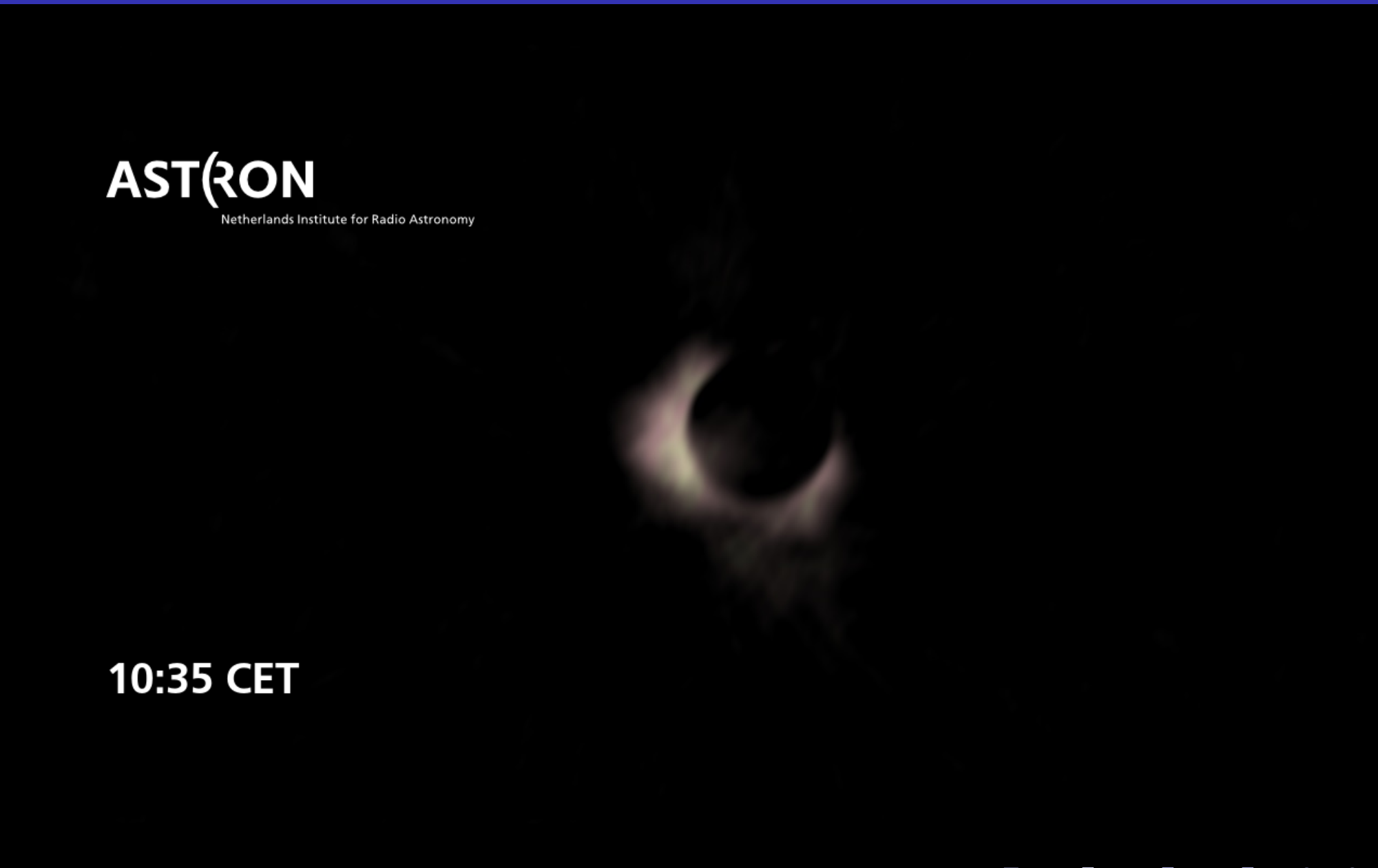

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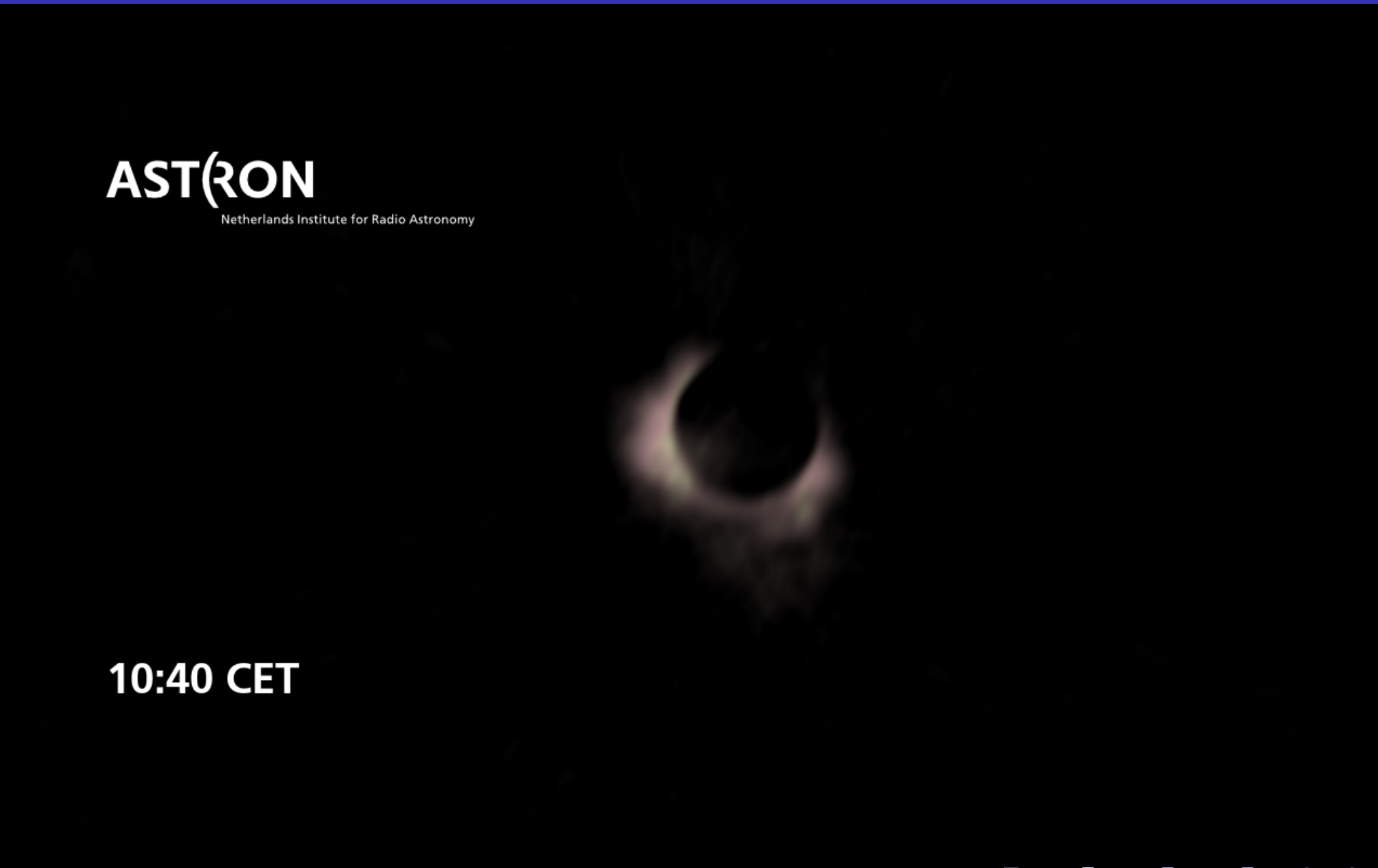

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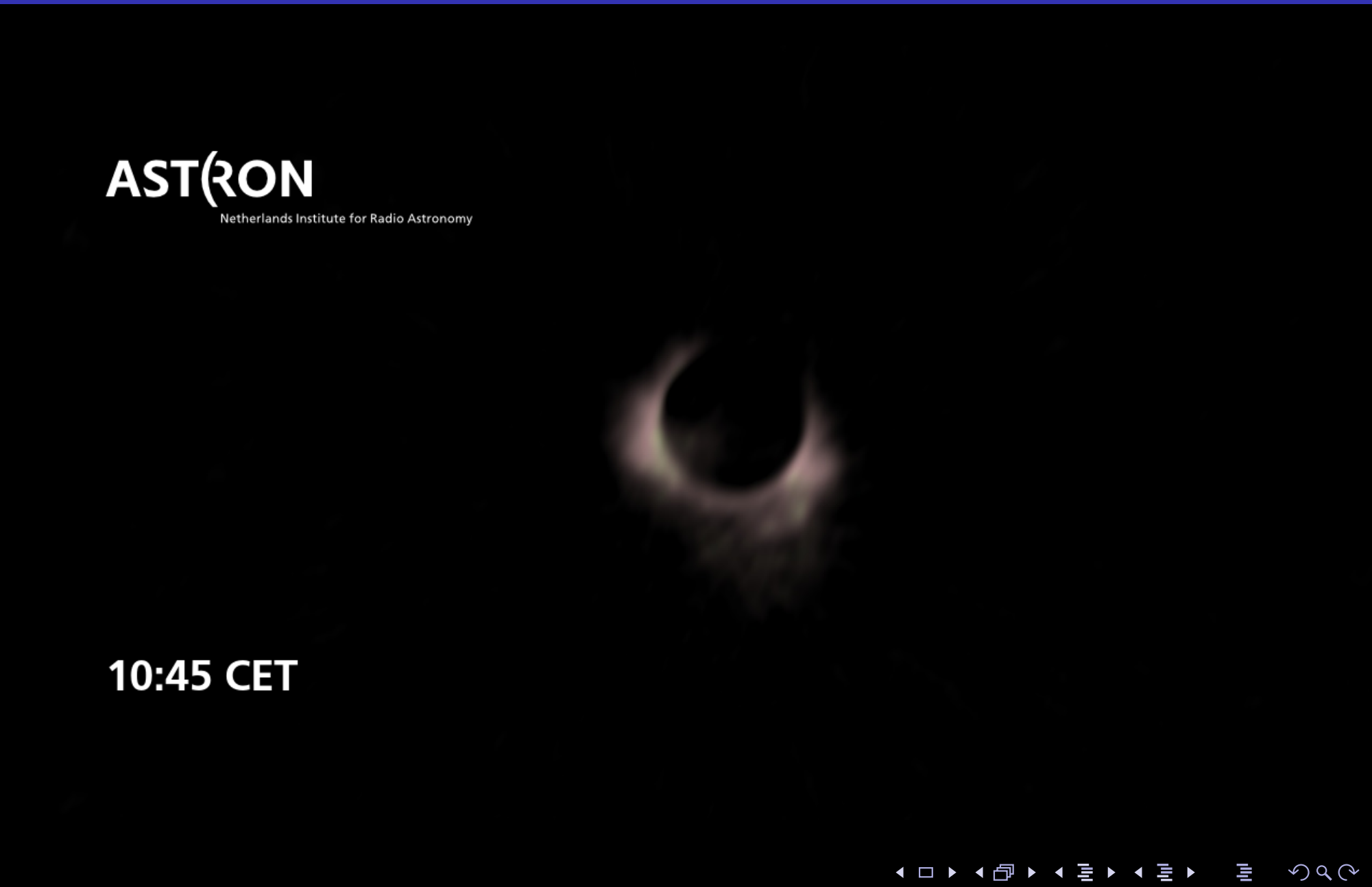

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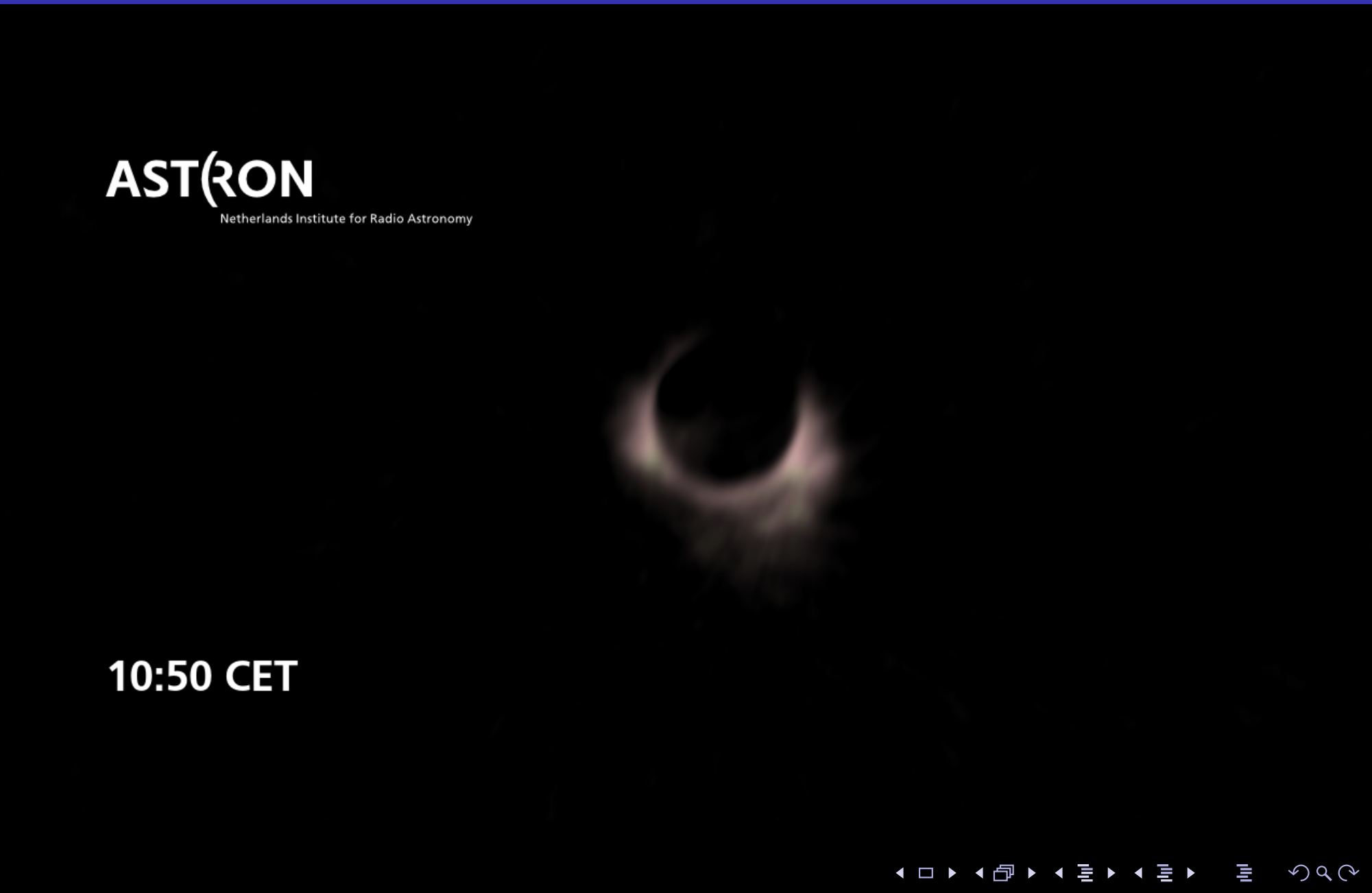

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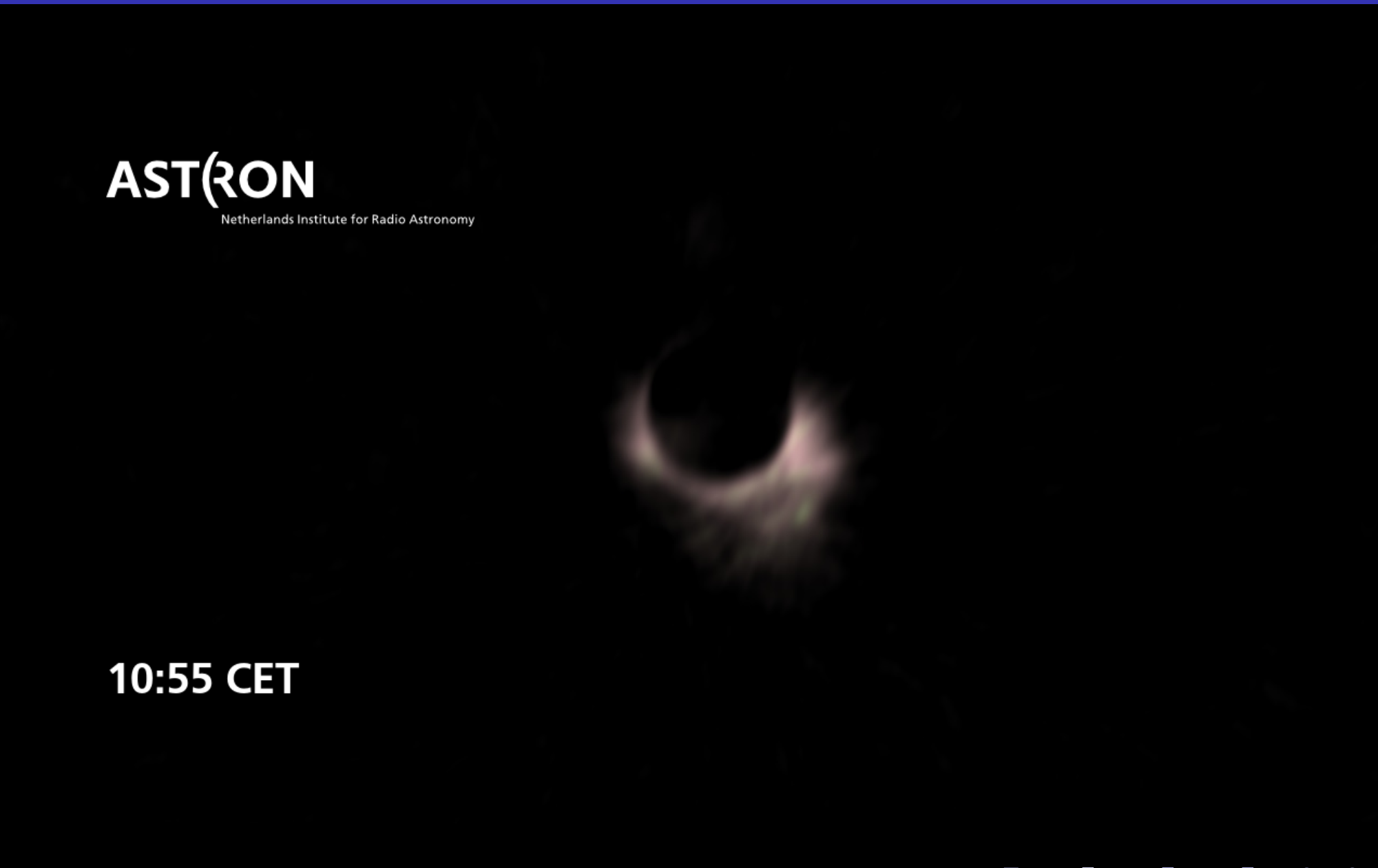

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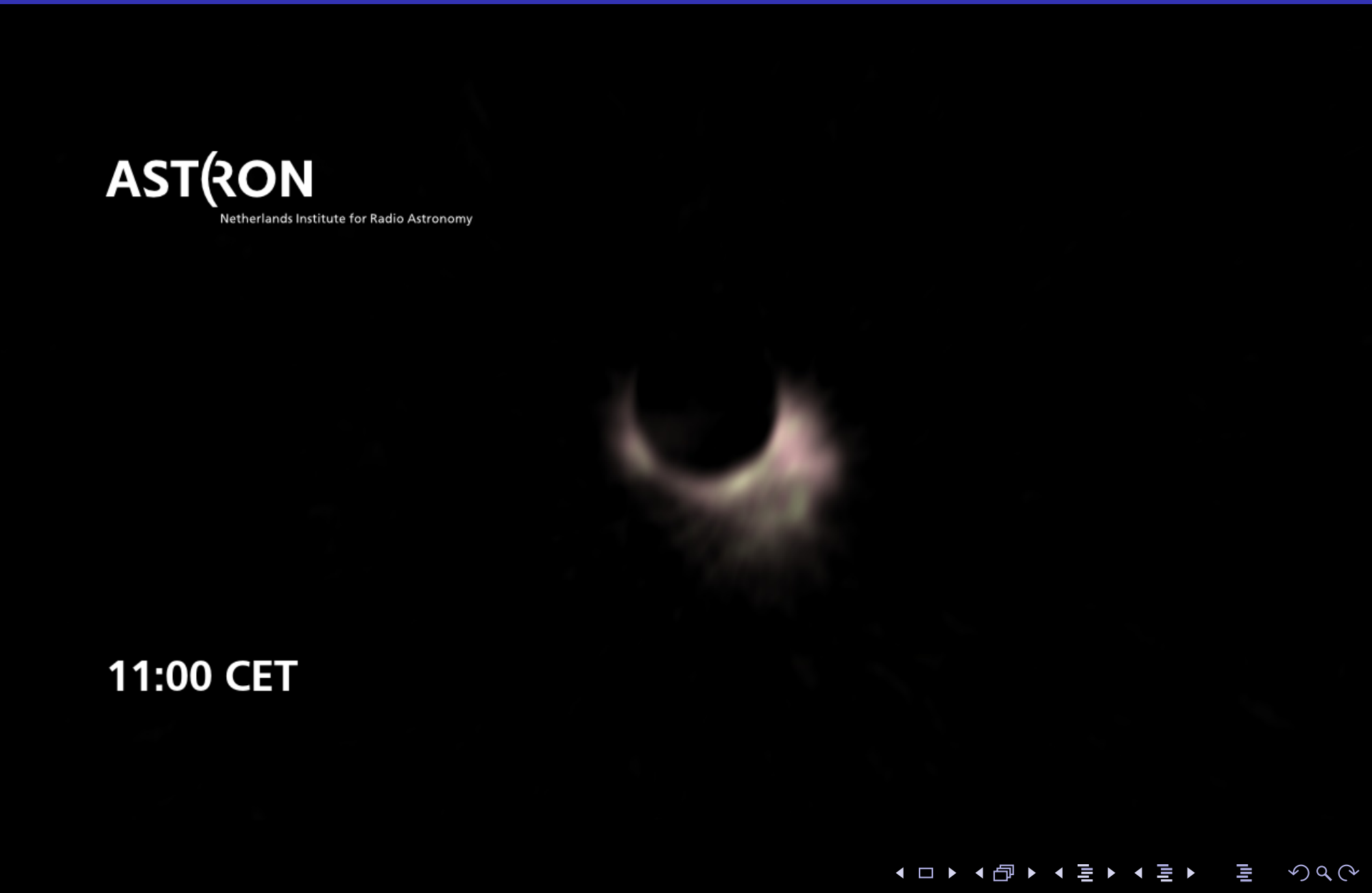

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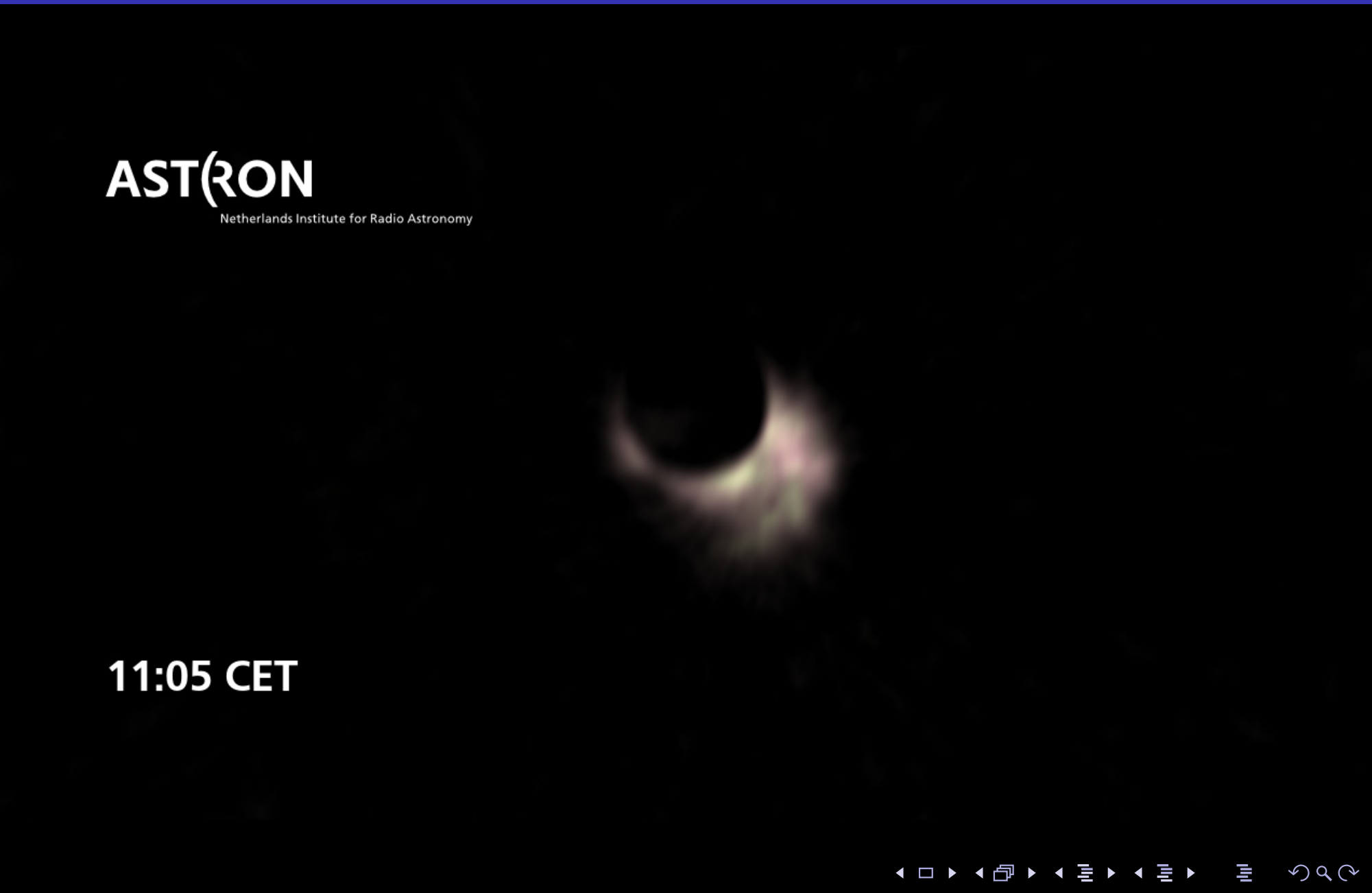

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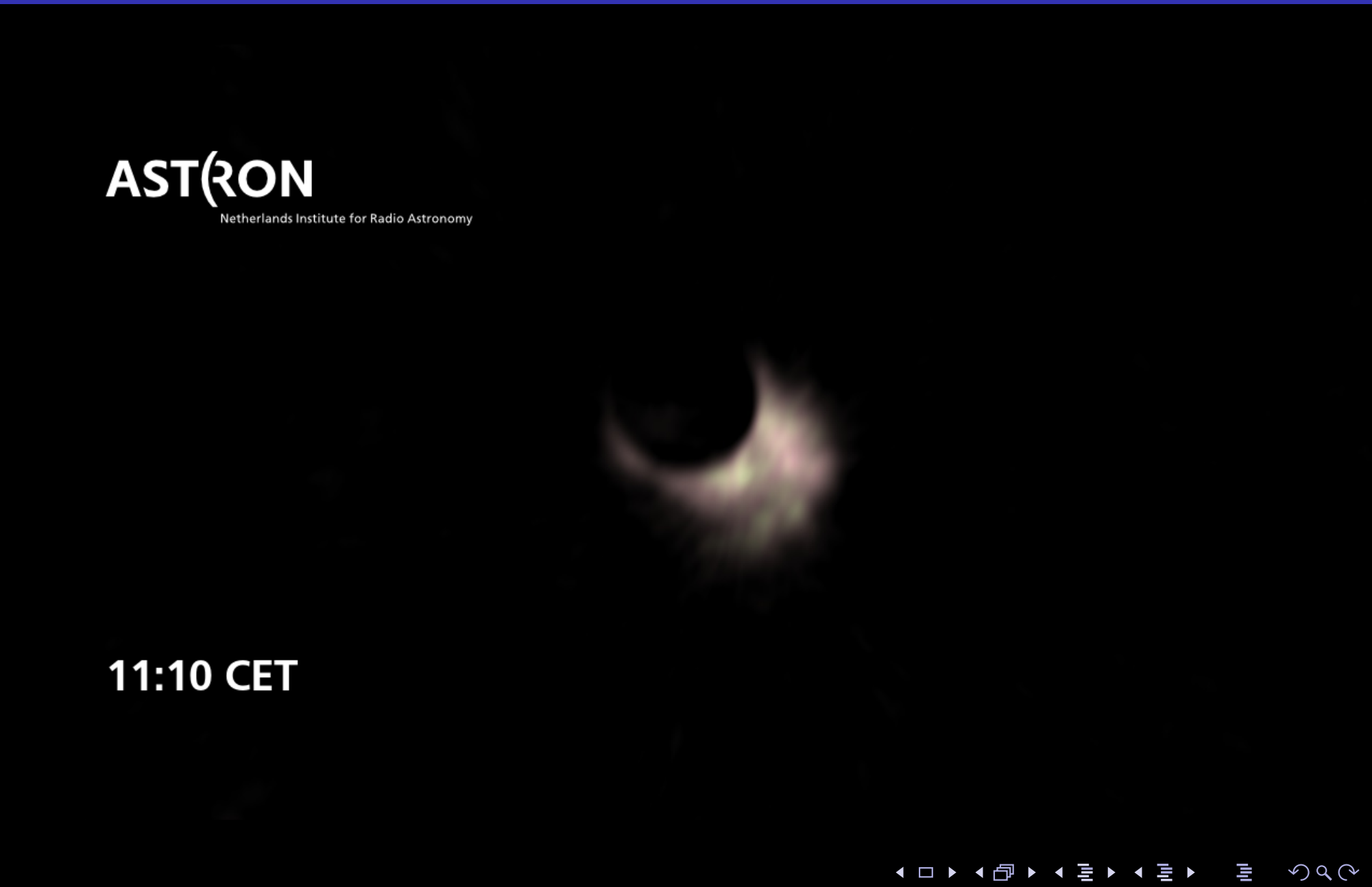

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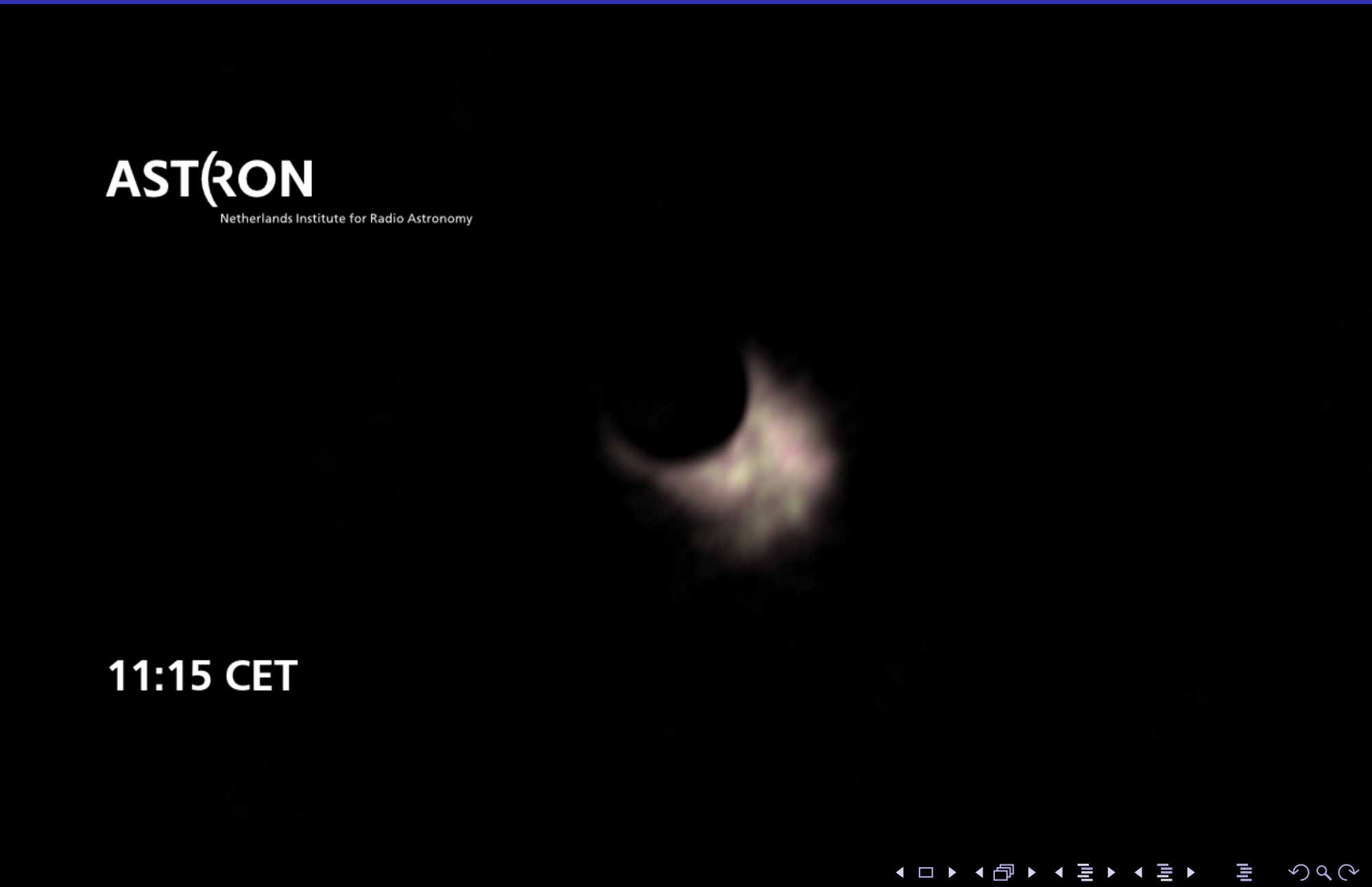

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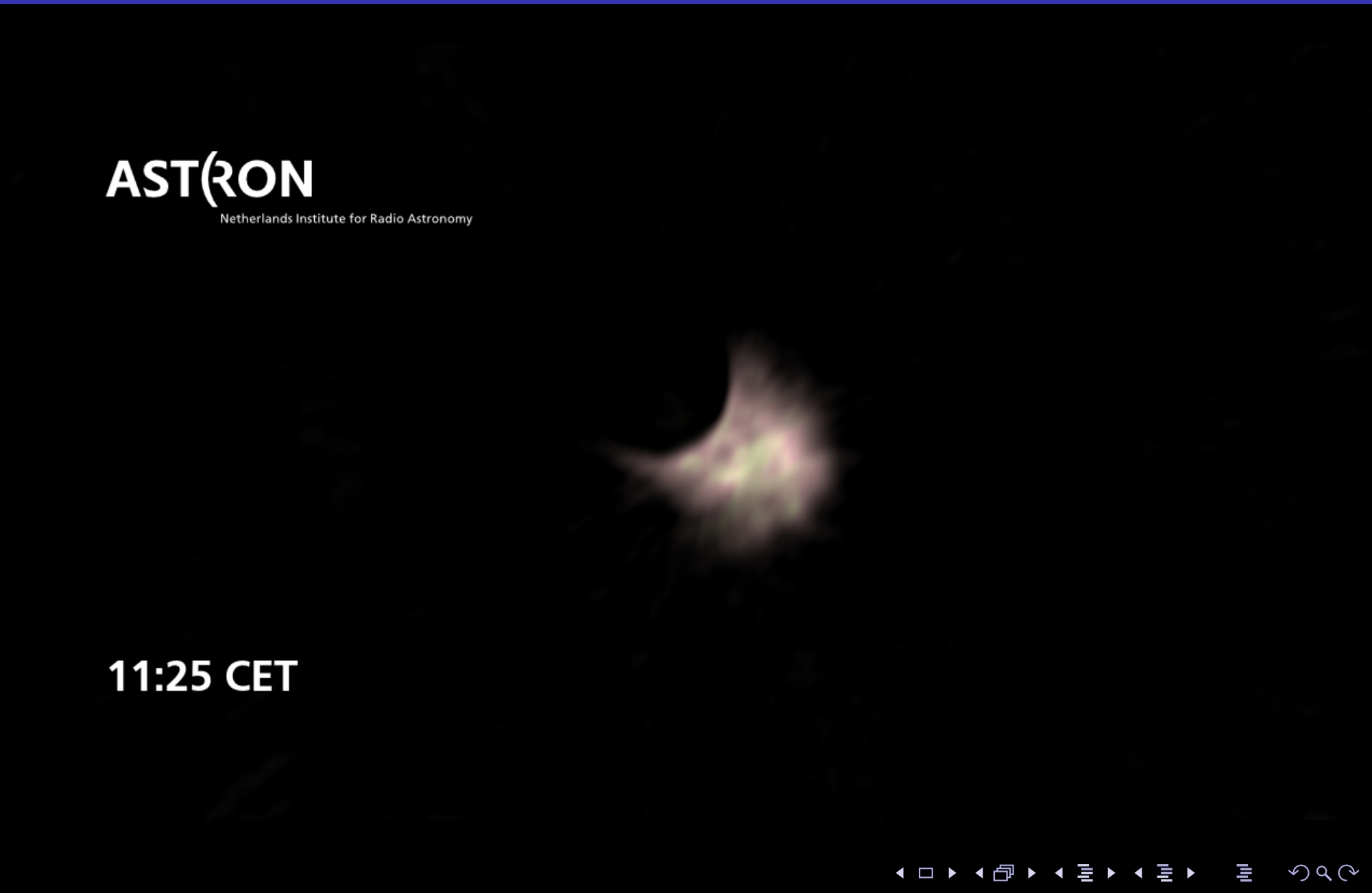

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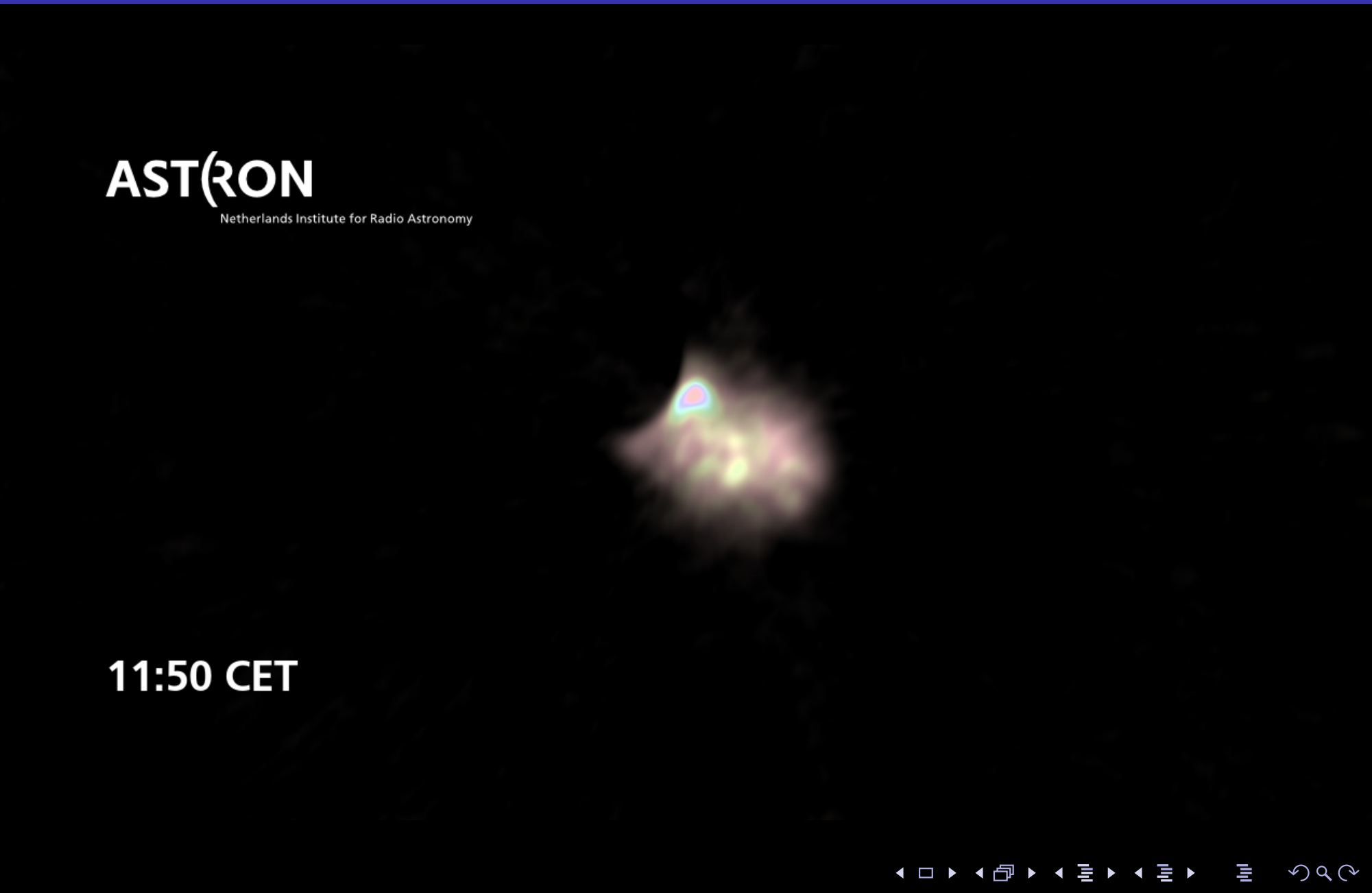

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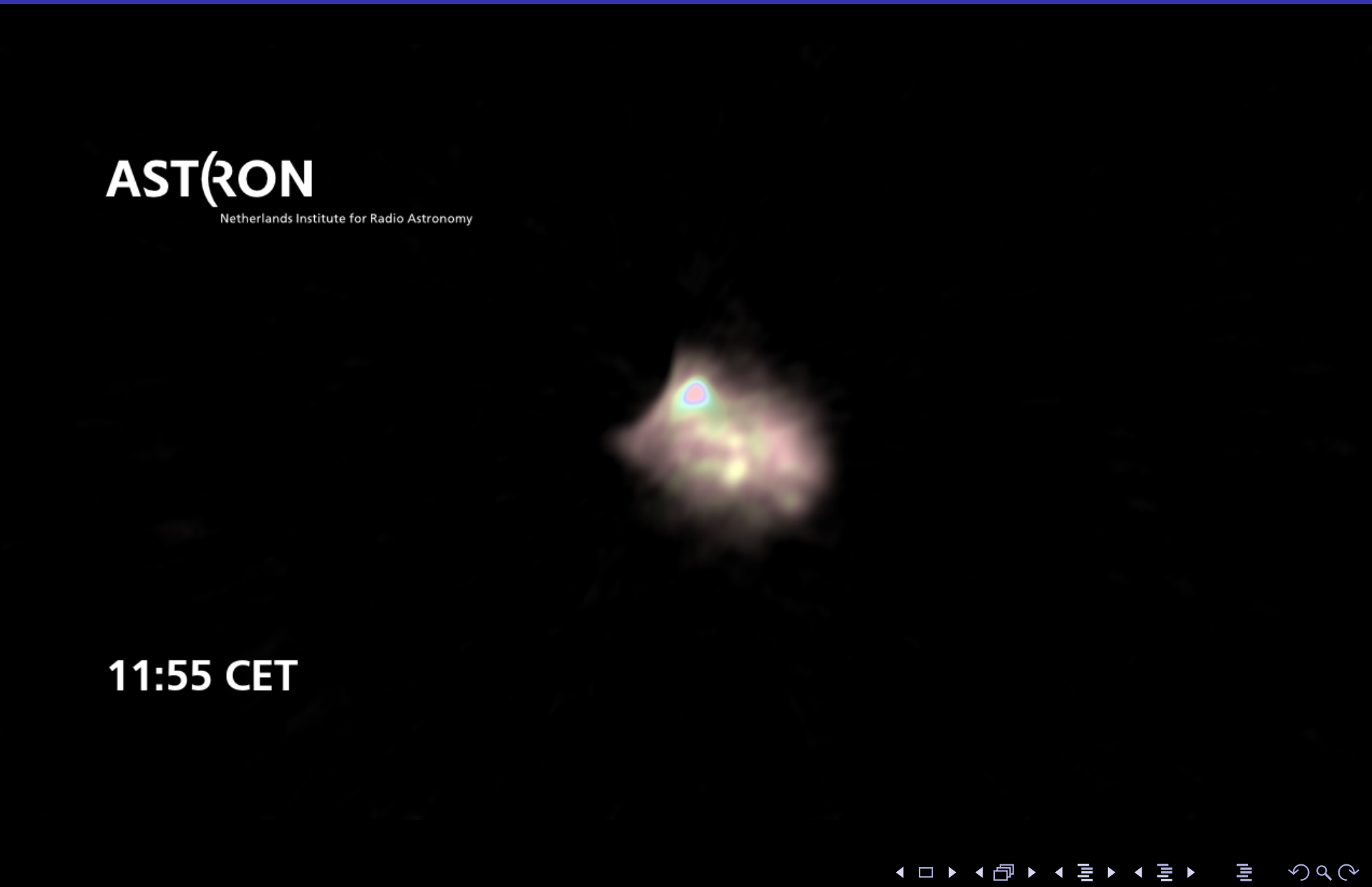

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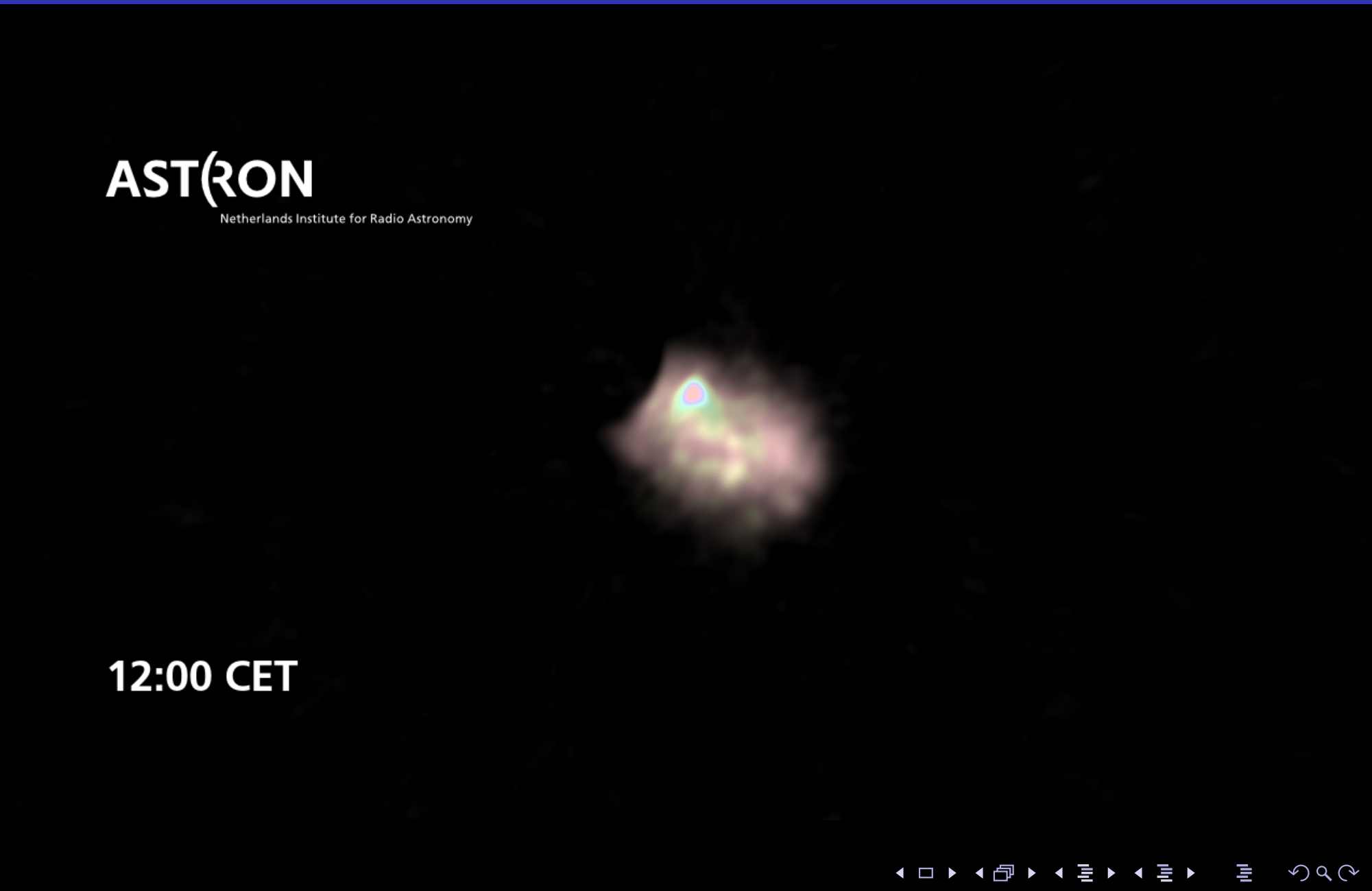

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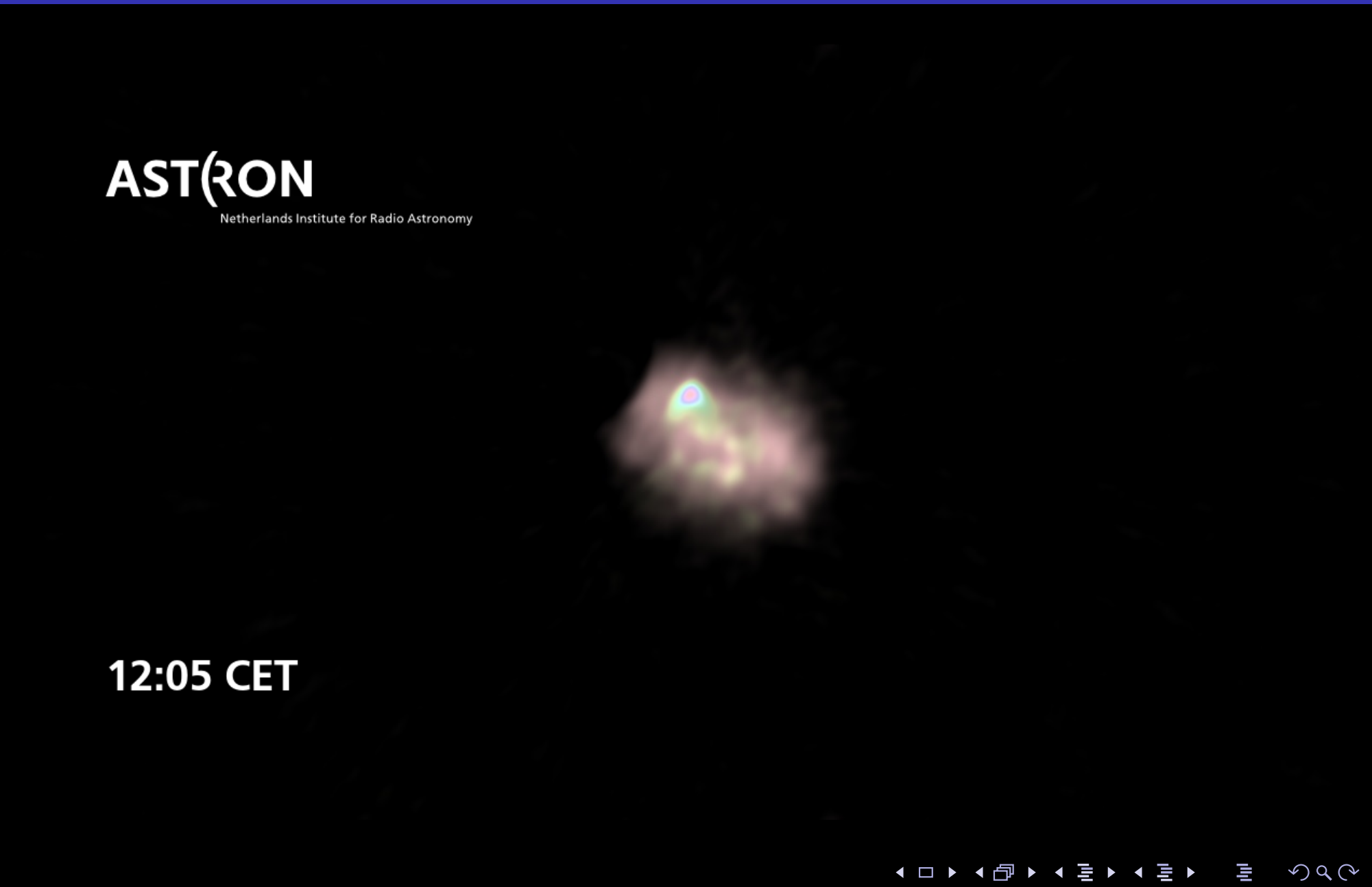

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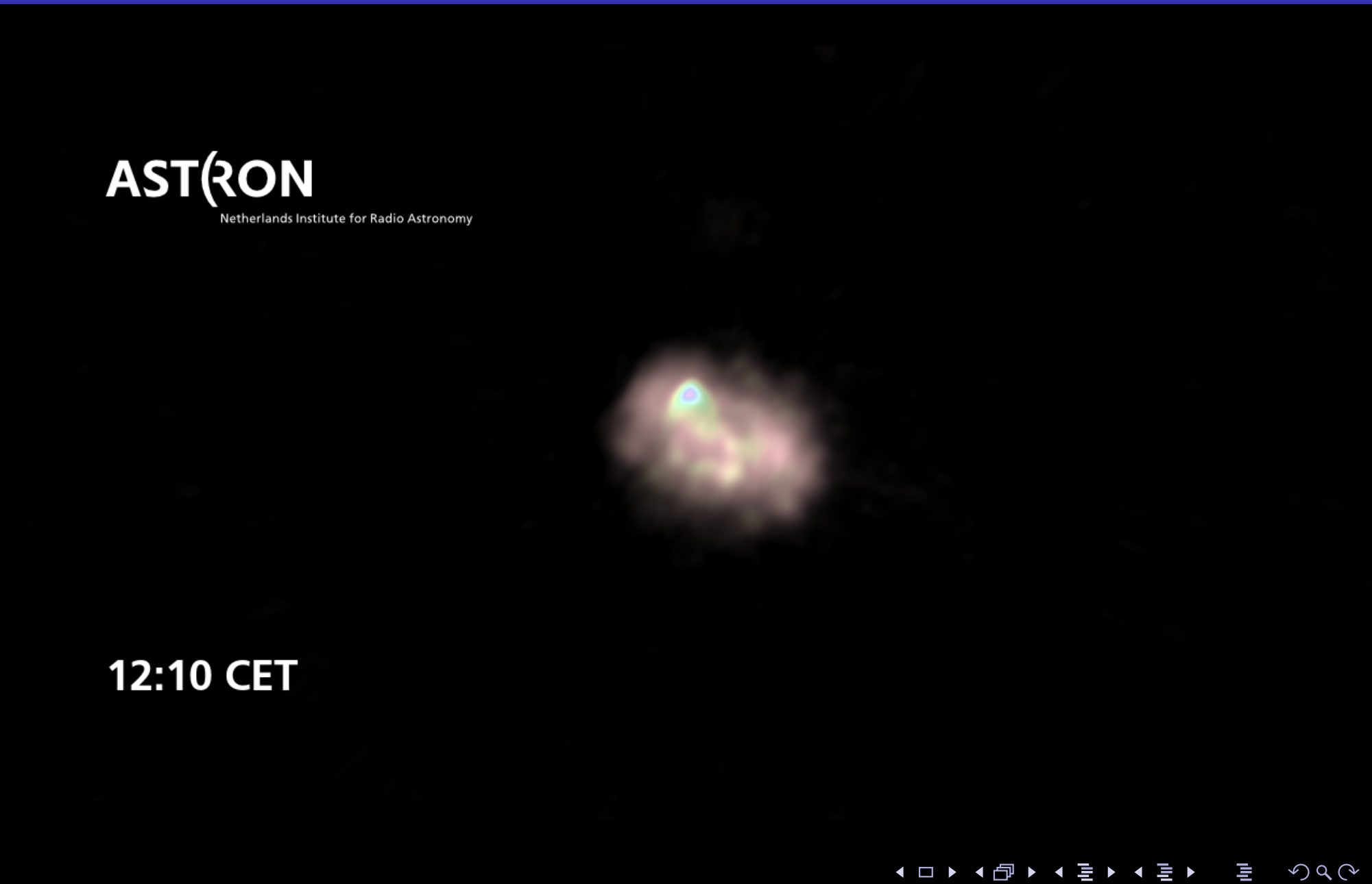

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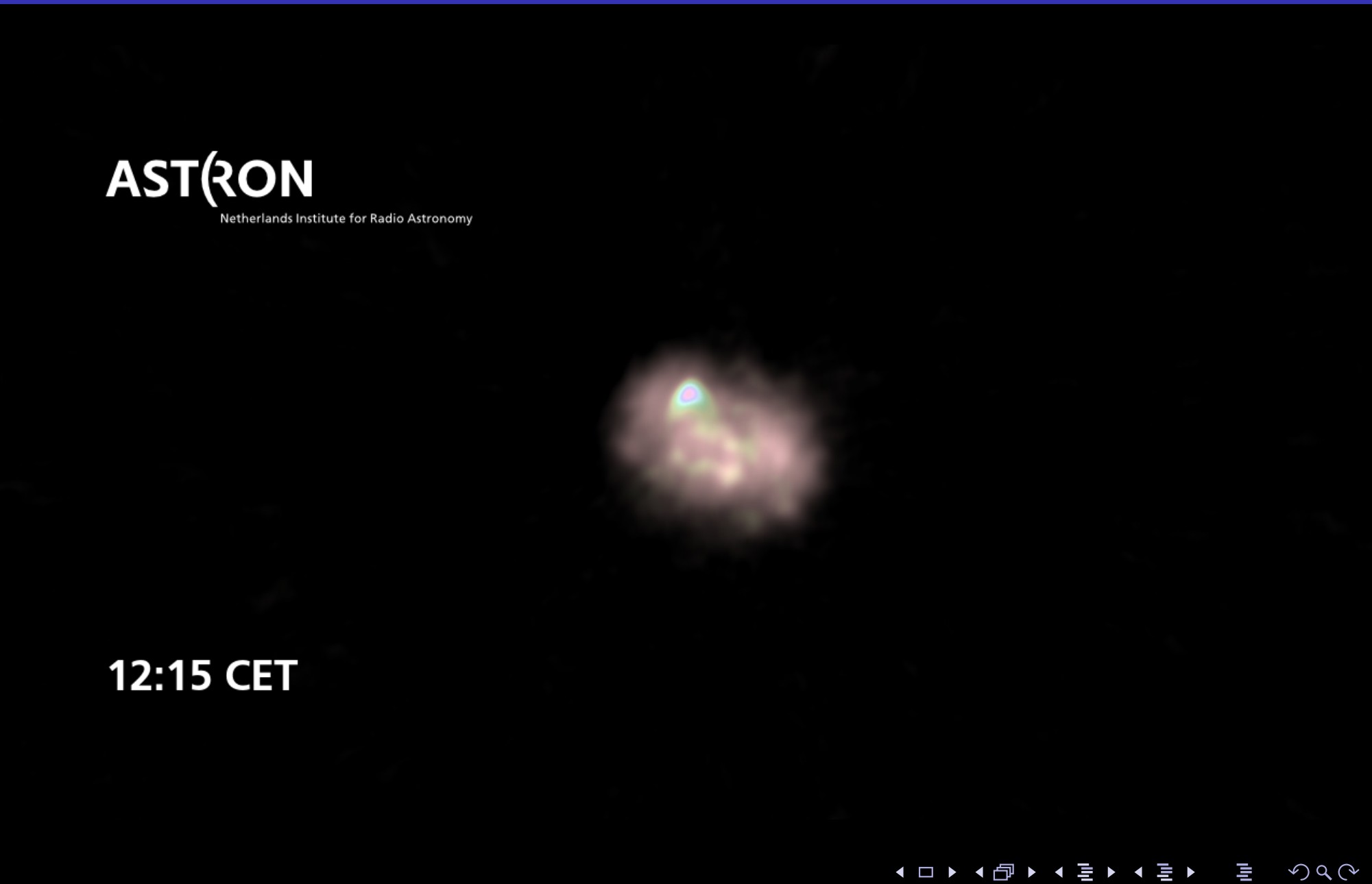

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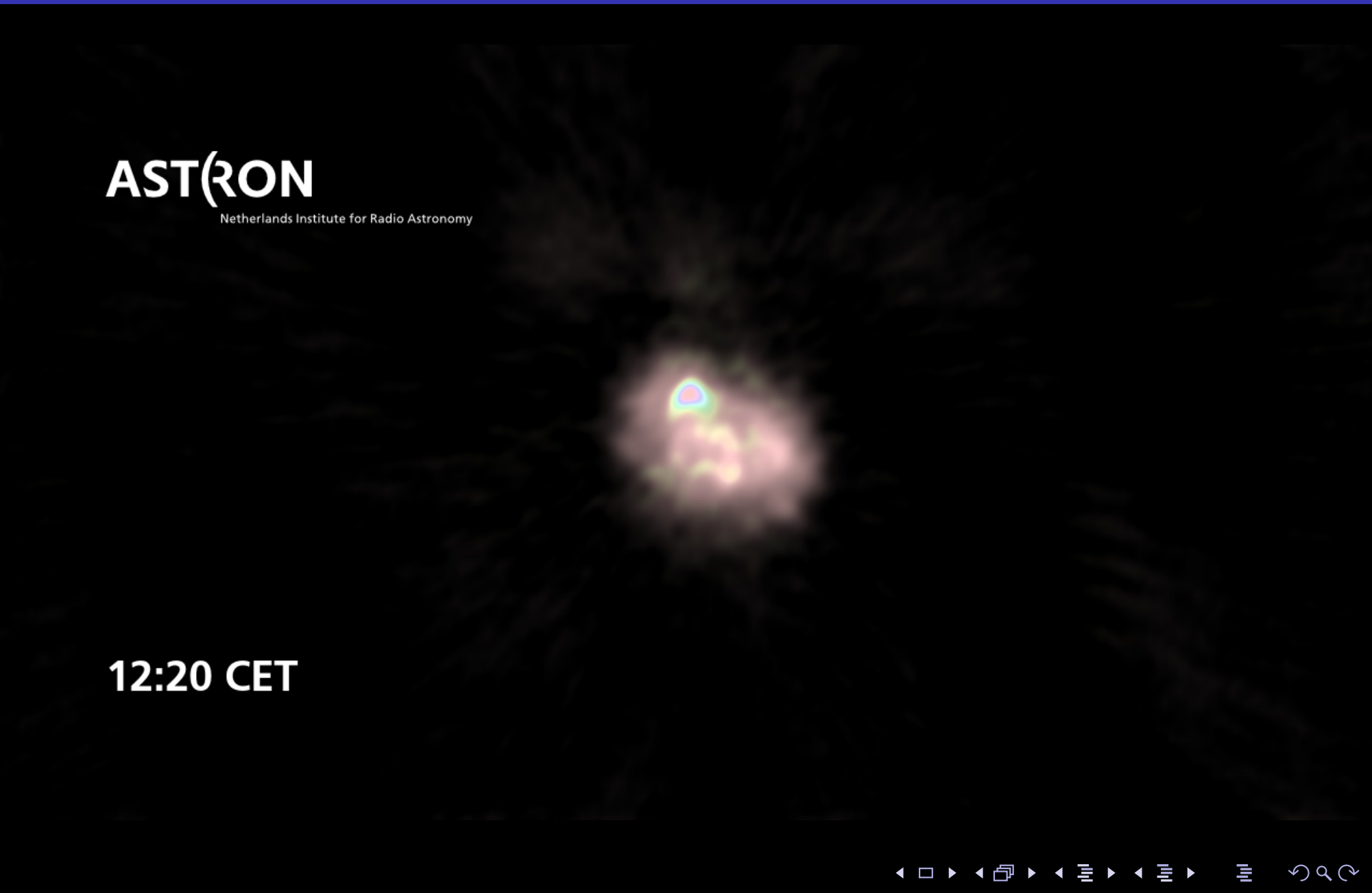

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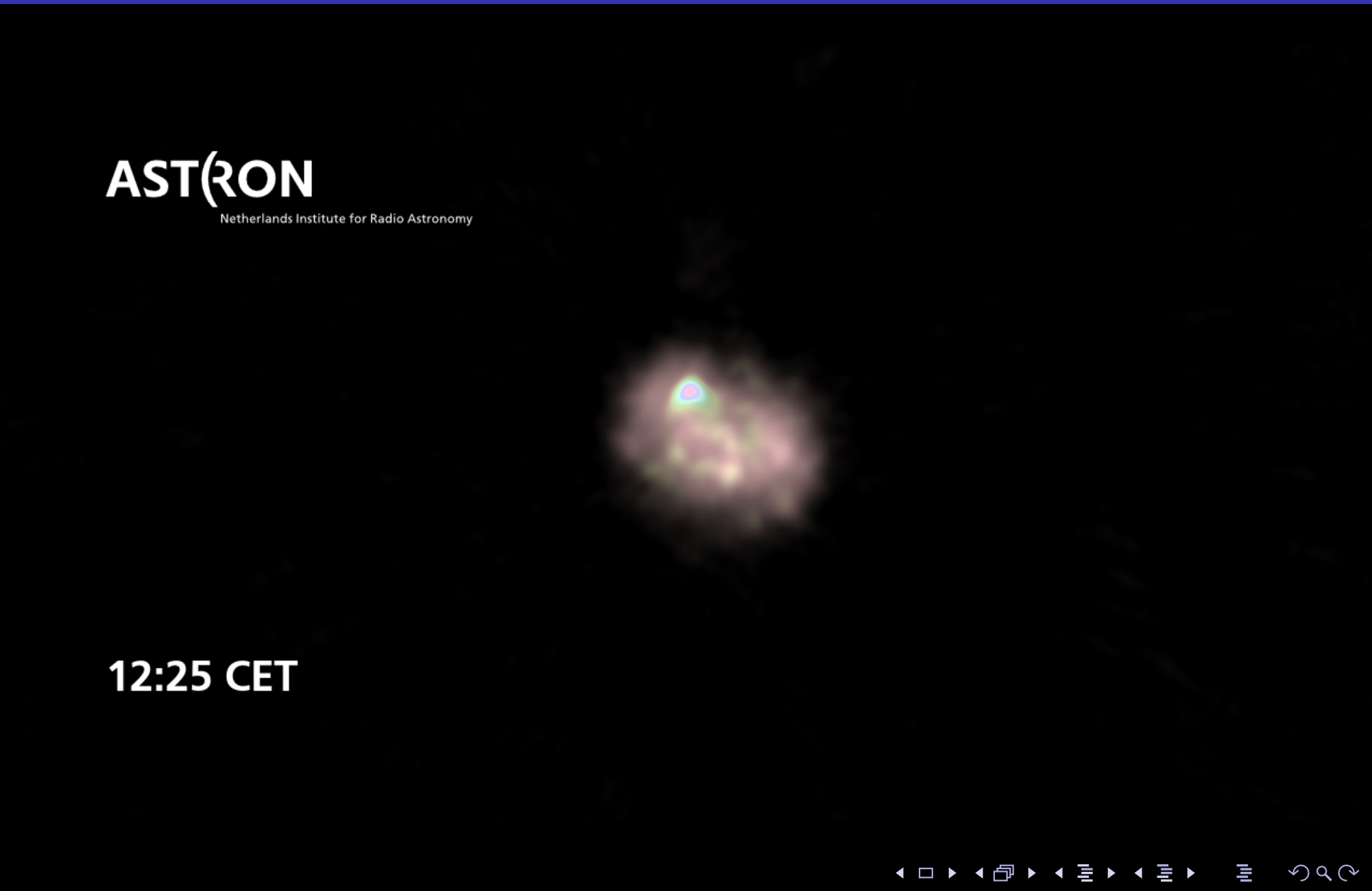

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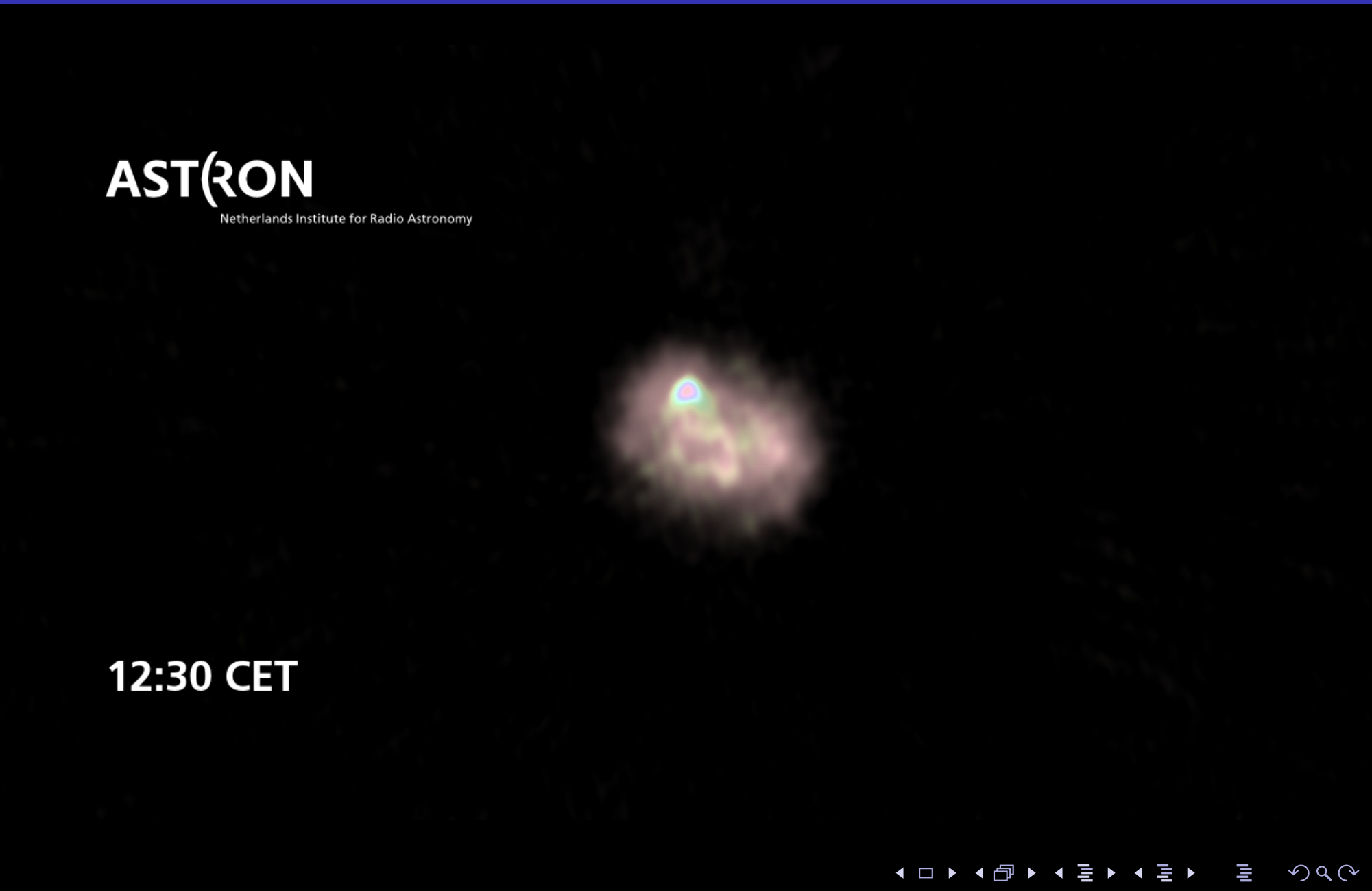

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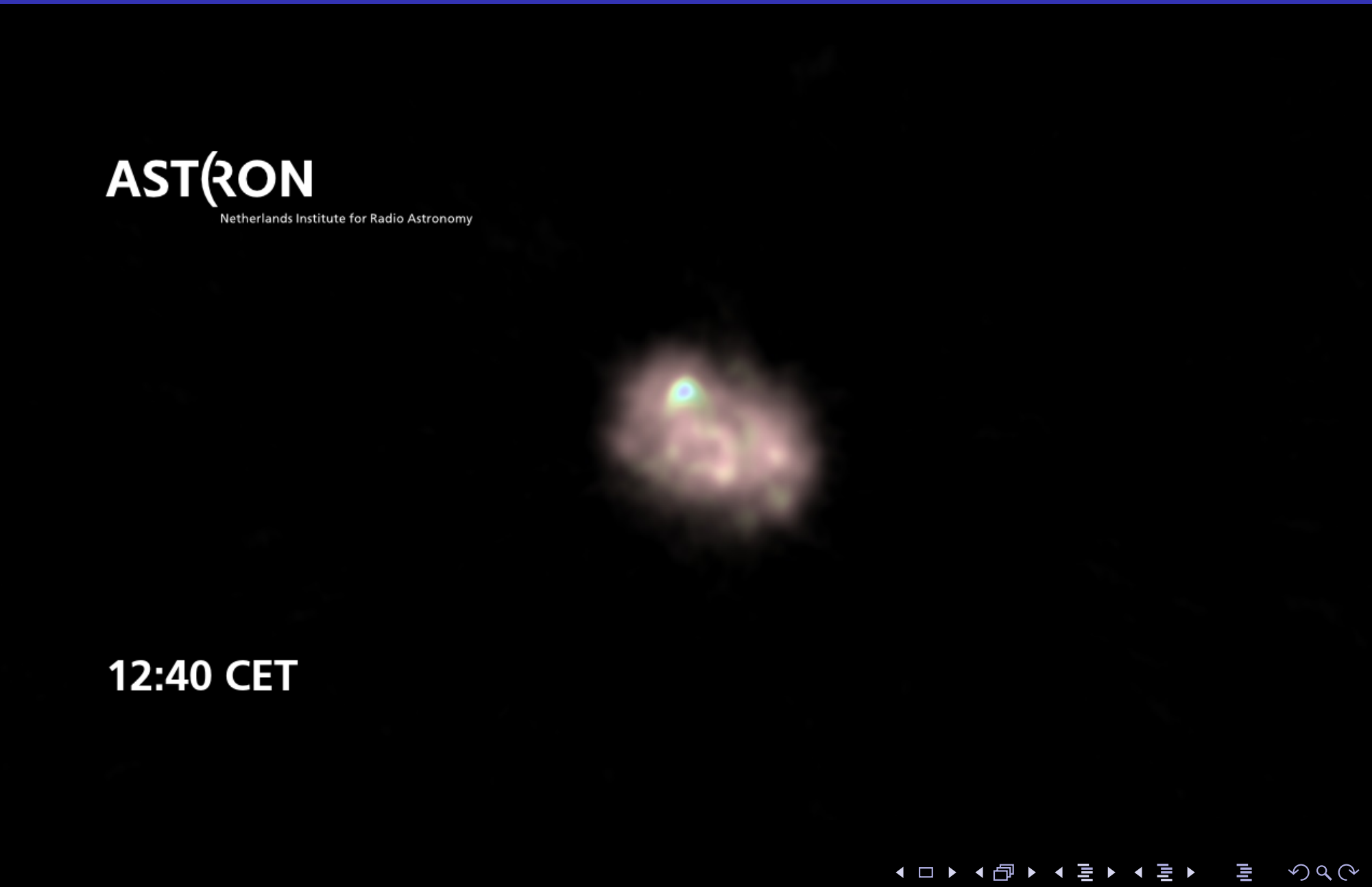

And now for some selfcal

Maximum 09:40 UTC