



Stockholm  
University

# Chromospheric Observation of OI (7772 Å)

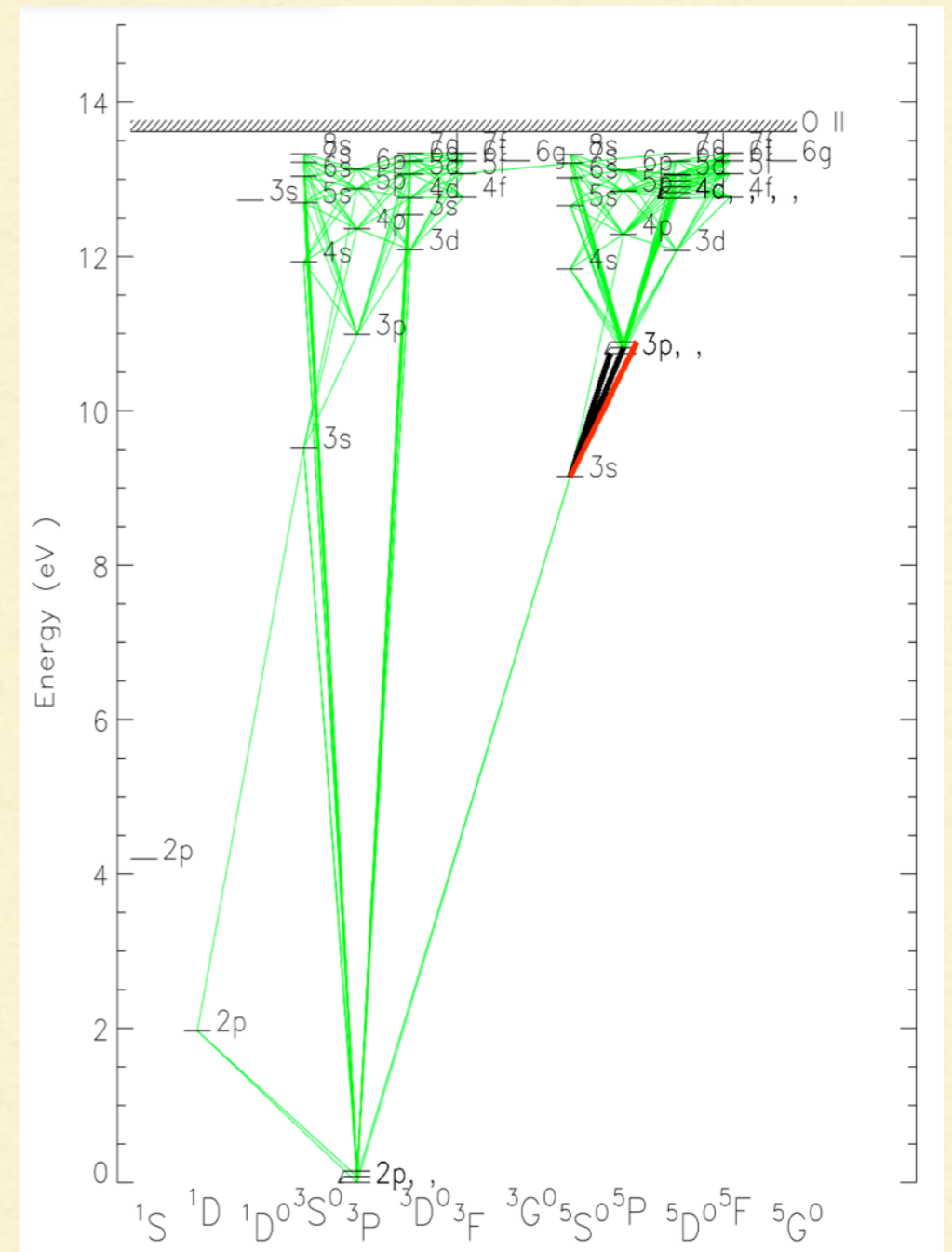
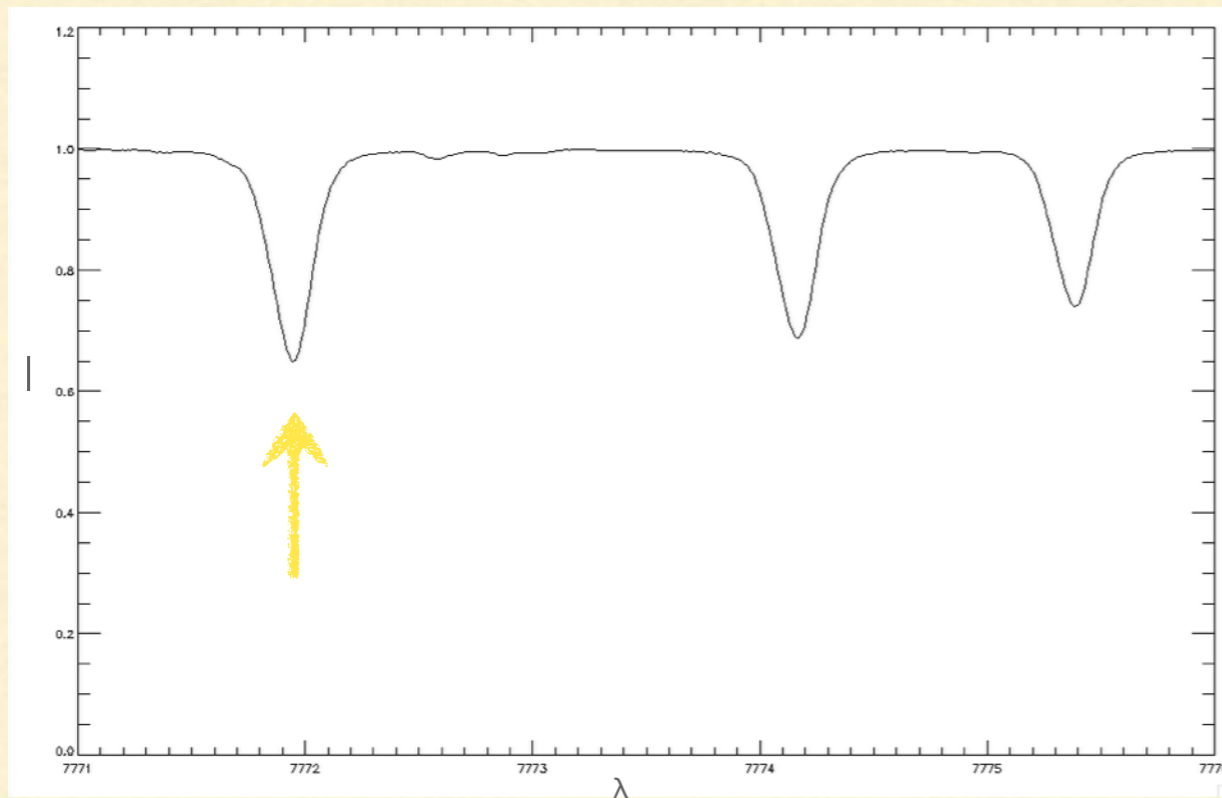
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# Why OI at 7772 Å

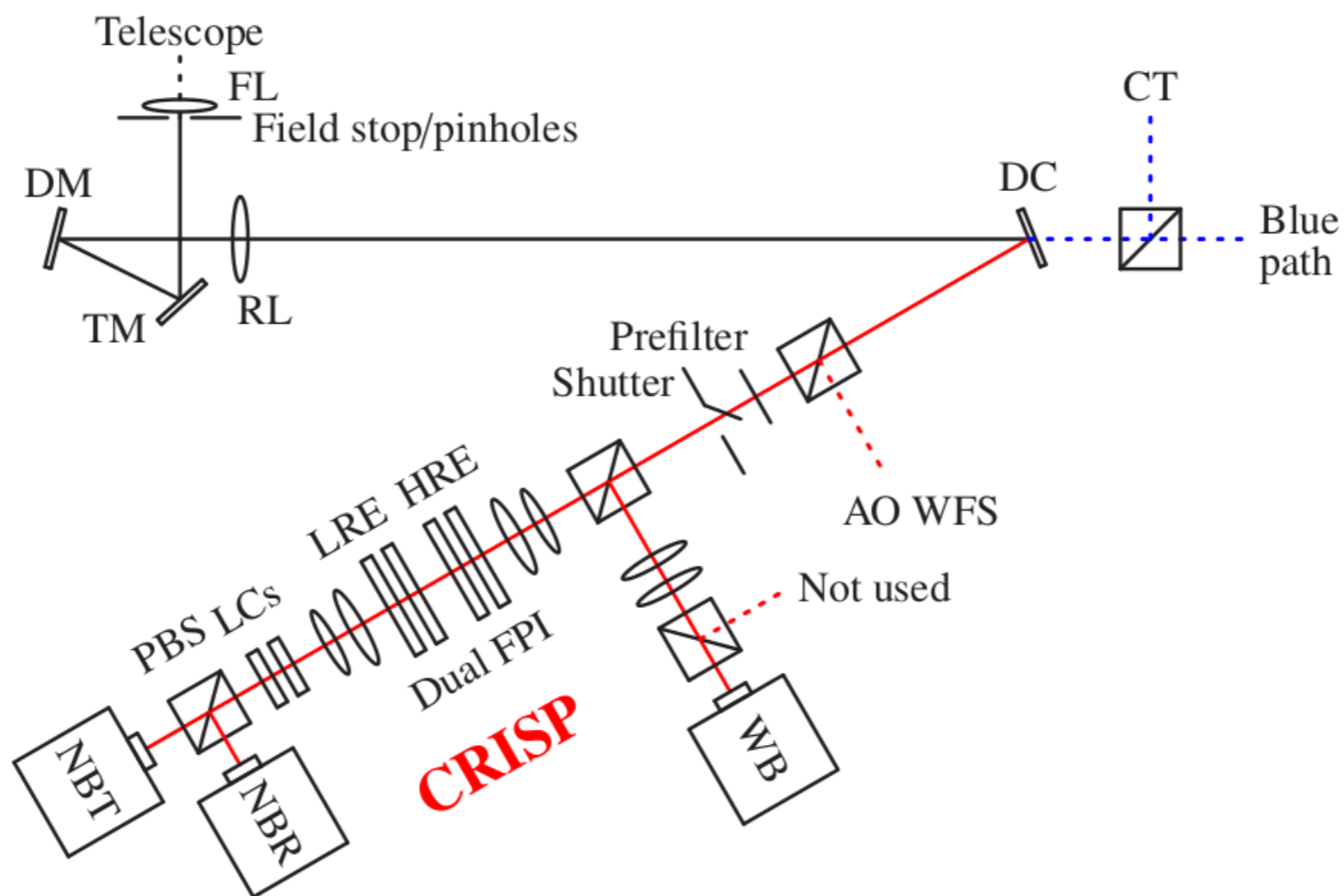
- A chromospheric line
- No blending
- Only observable in OI line in metal-poor stars
- No clear line formation process



Fabbian et al. (2009)



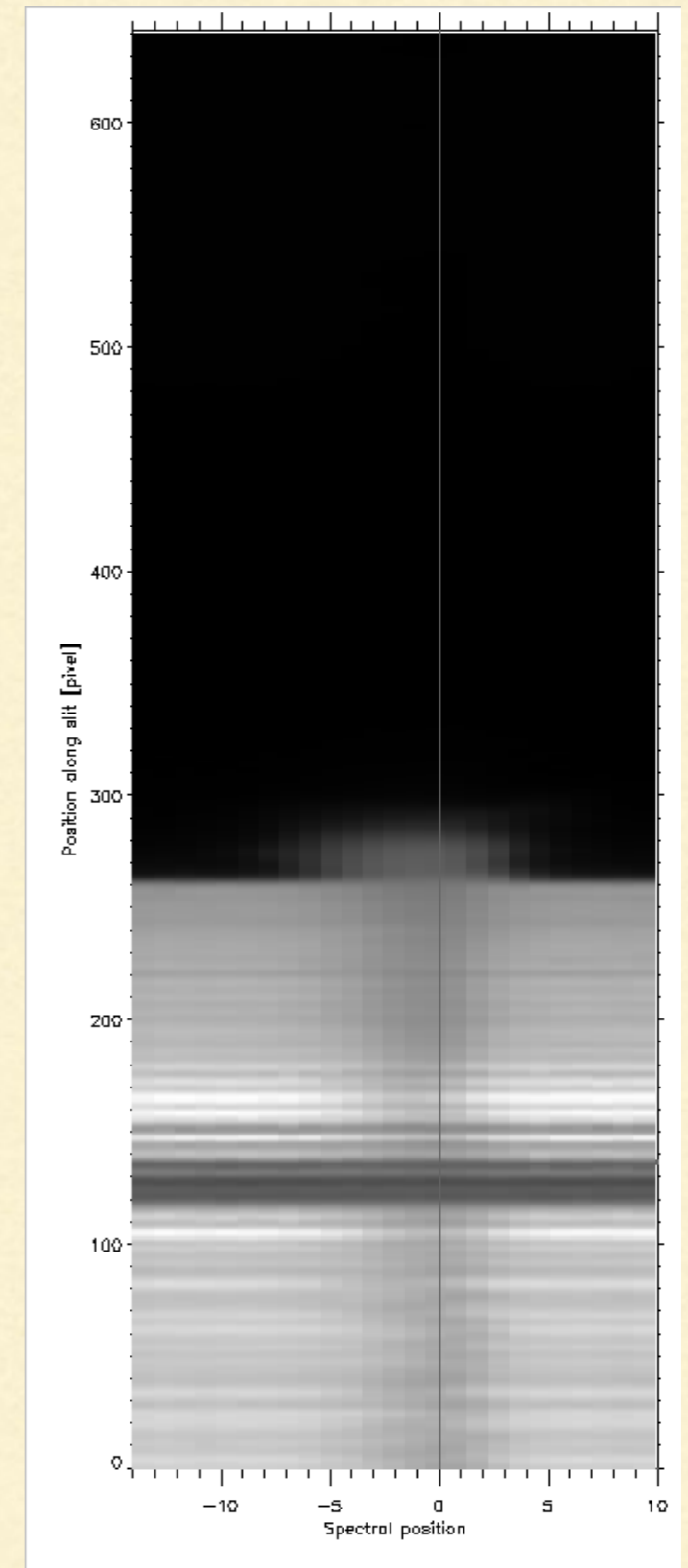
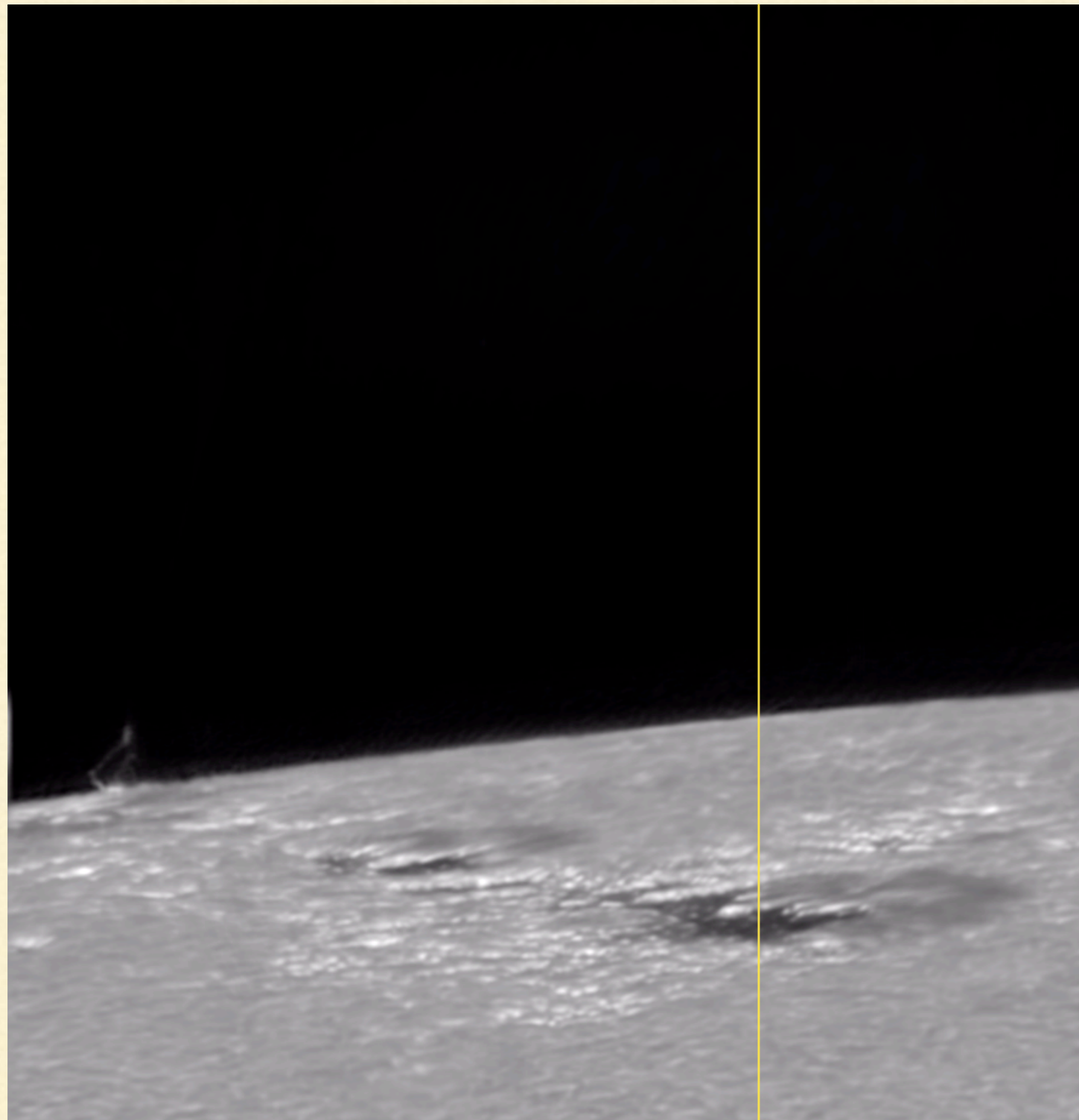
# Observation Setup



Credit: Mats Löfdahl



# Limb Observation at 7772 Å



Using Crispex (Vissers et al. 2102)

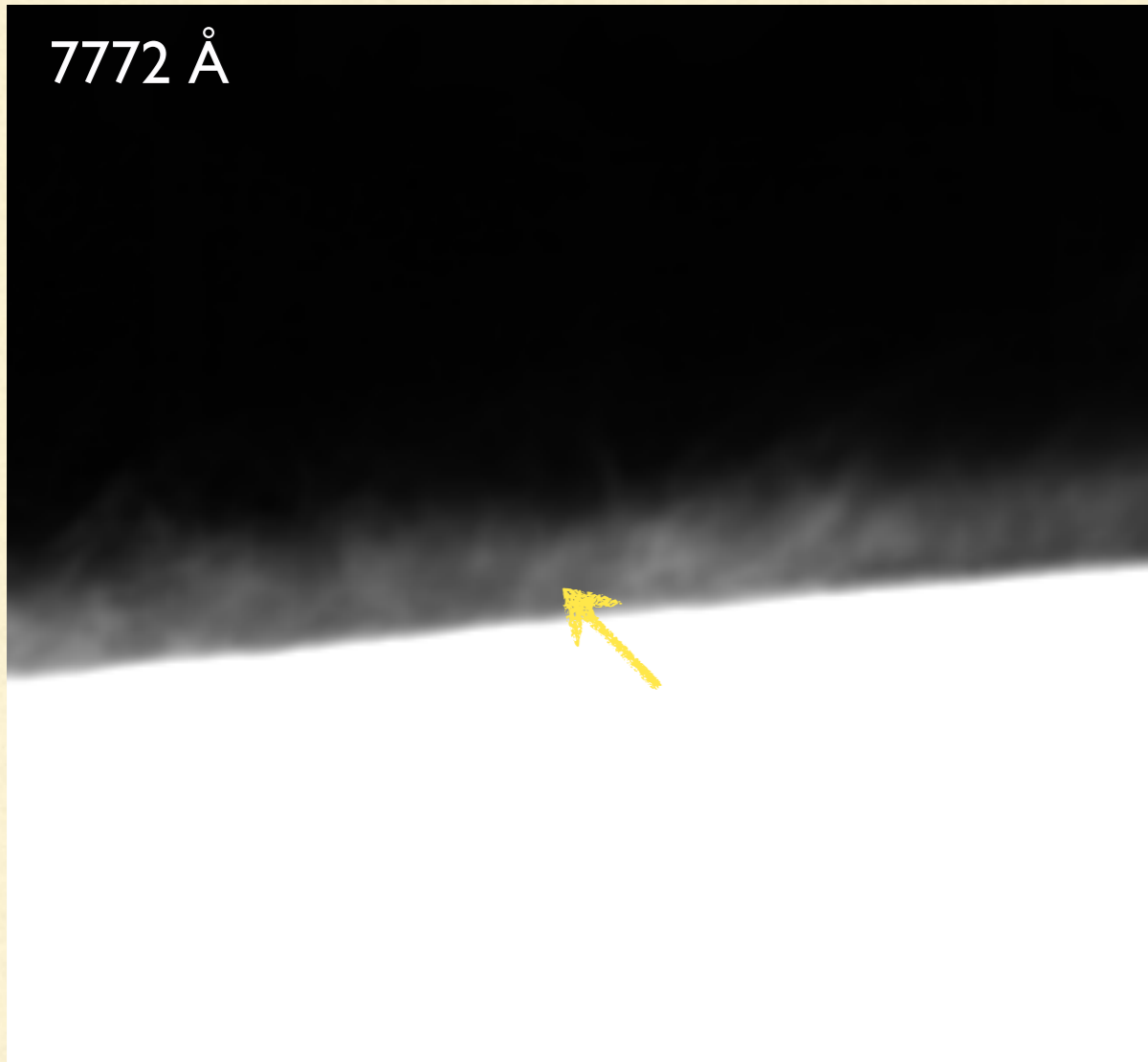
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# Observations (what is observable what is not!)

- Spicules?
- Dark Gap
- Prominence
- On disk observation
- Surge
- Filament

# Spicules?

7772 Å

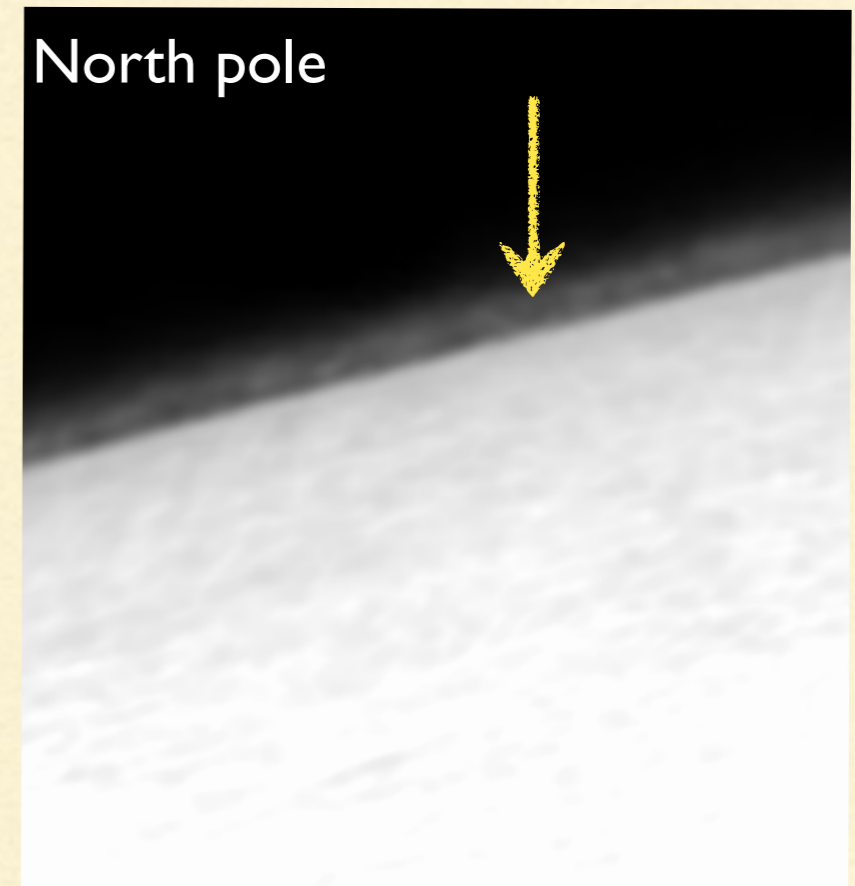
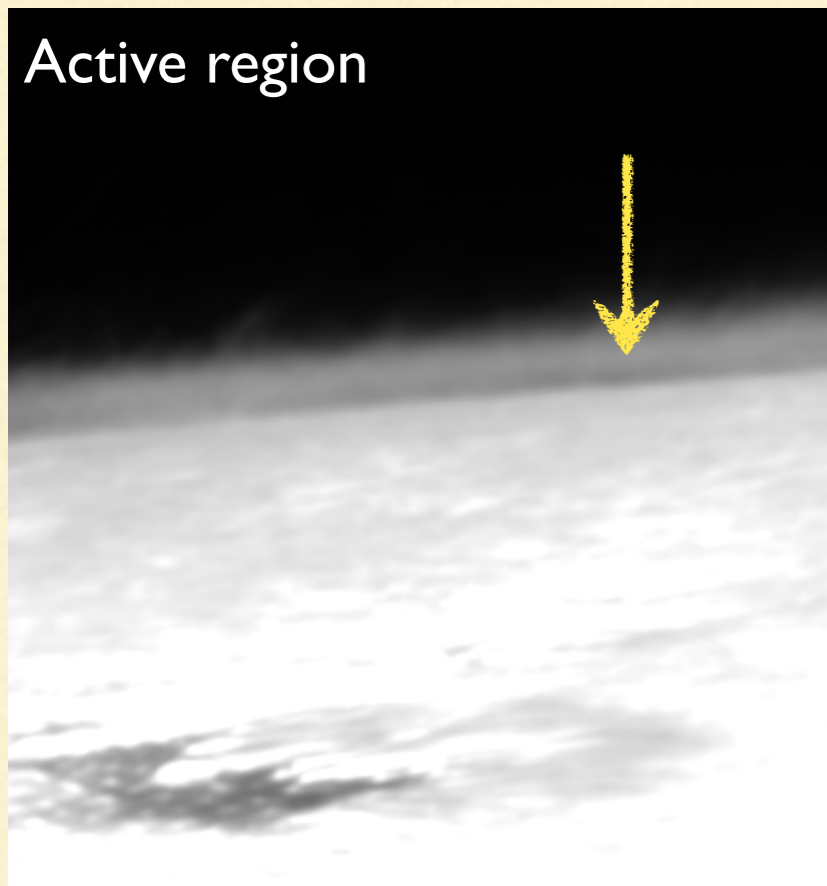


8542 Å



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# Dark Gap





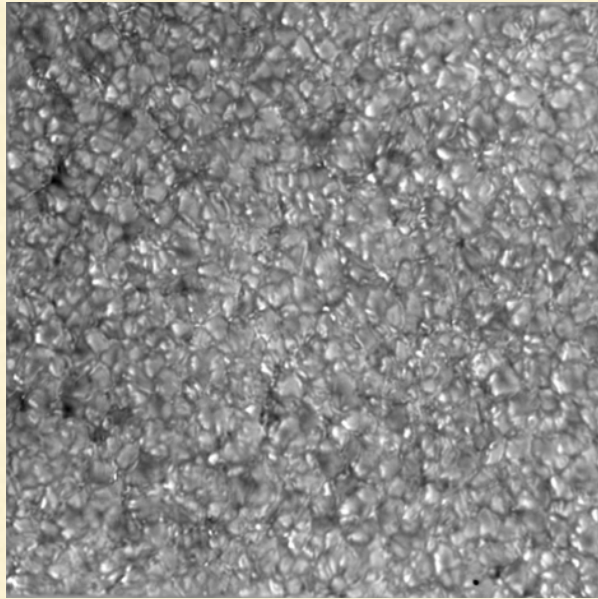
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# Prominence

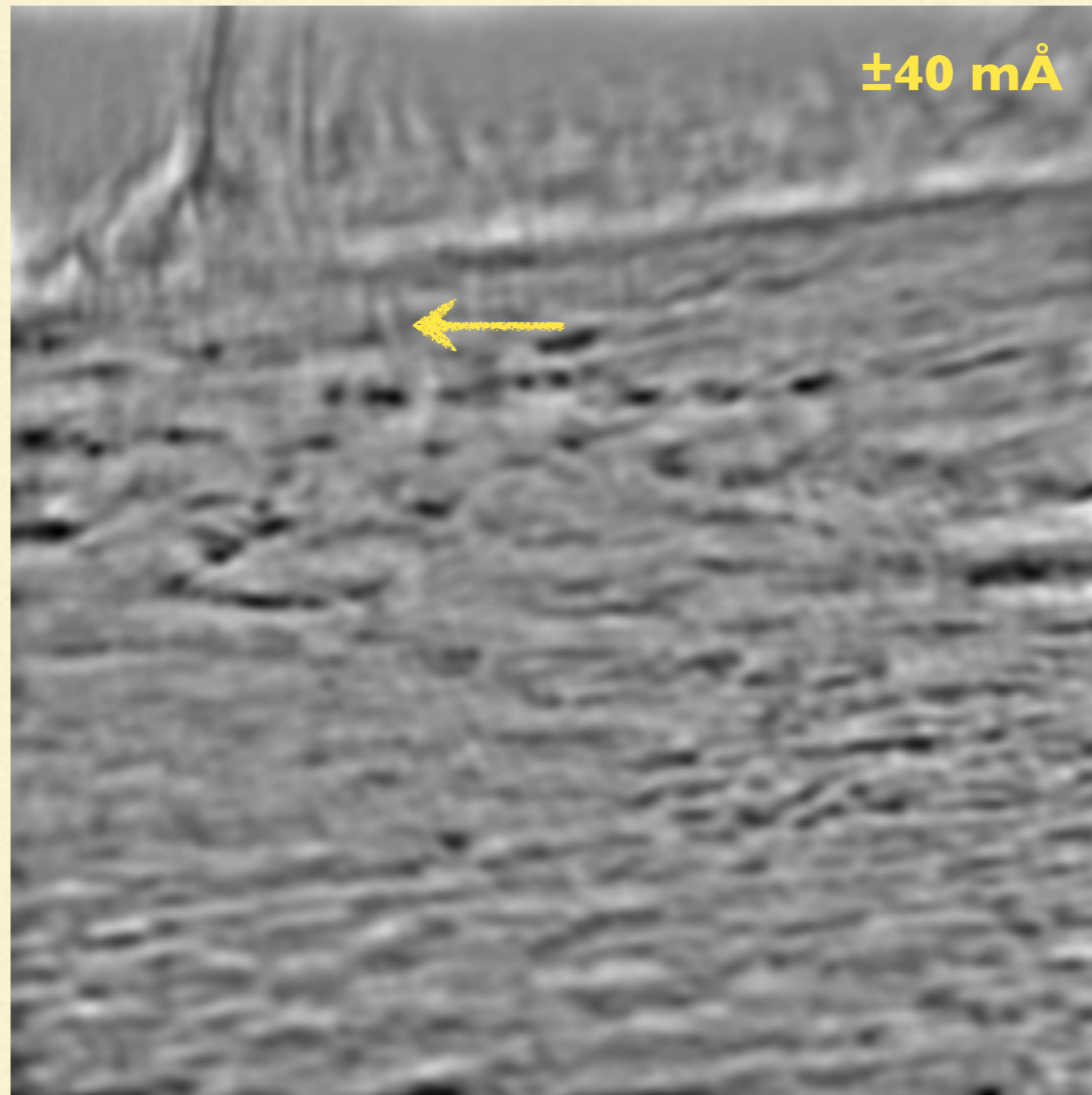




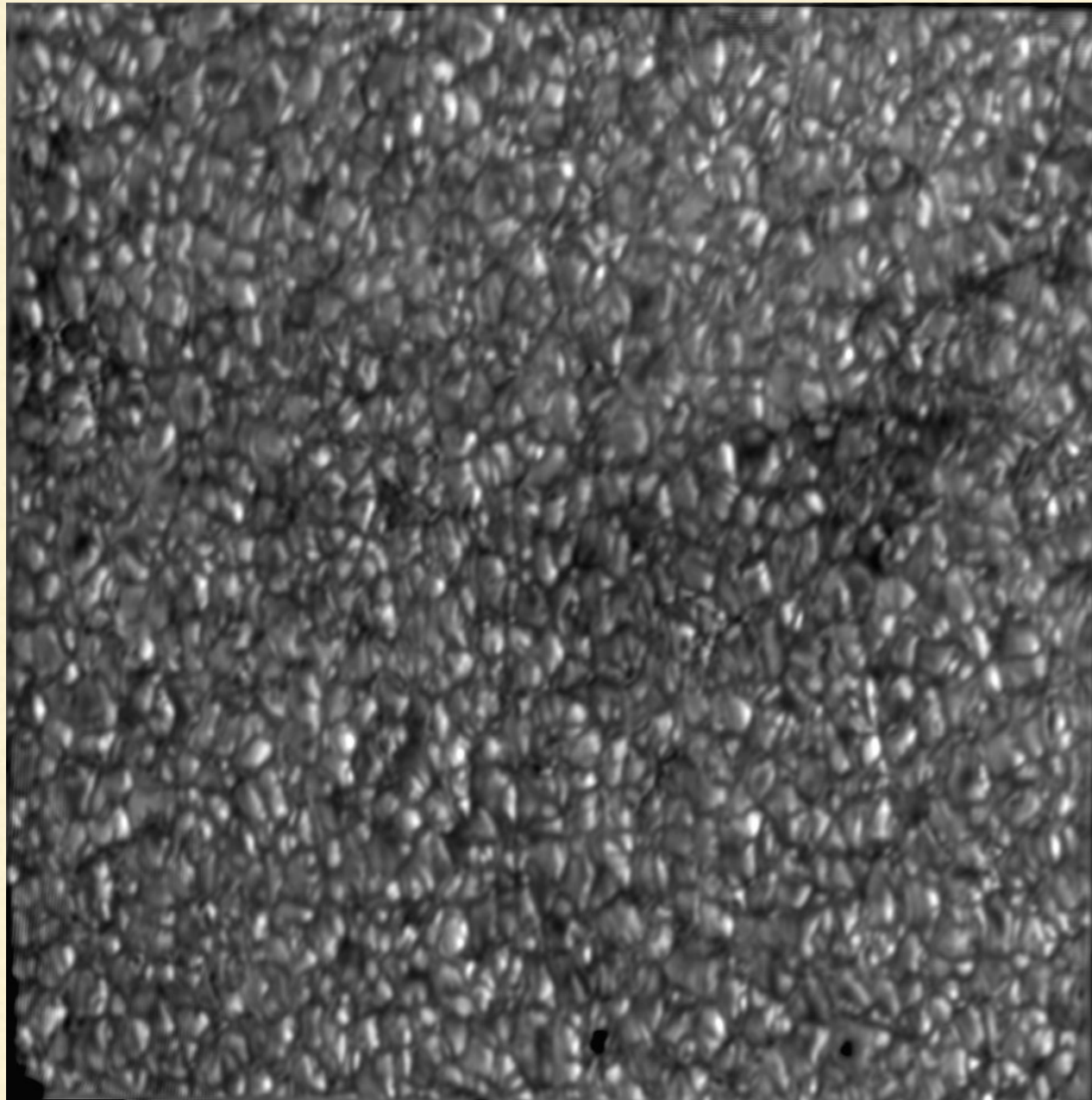
# On Disk



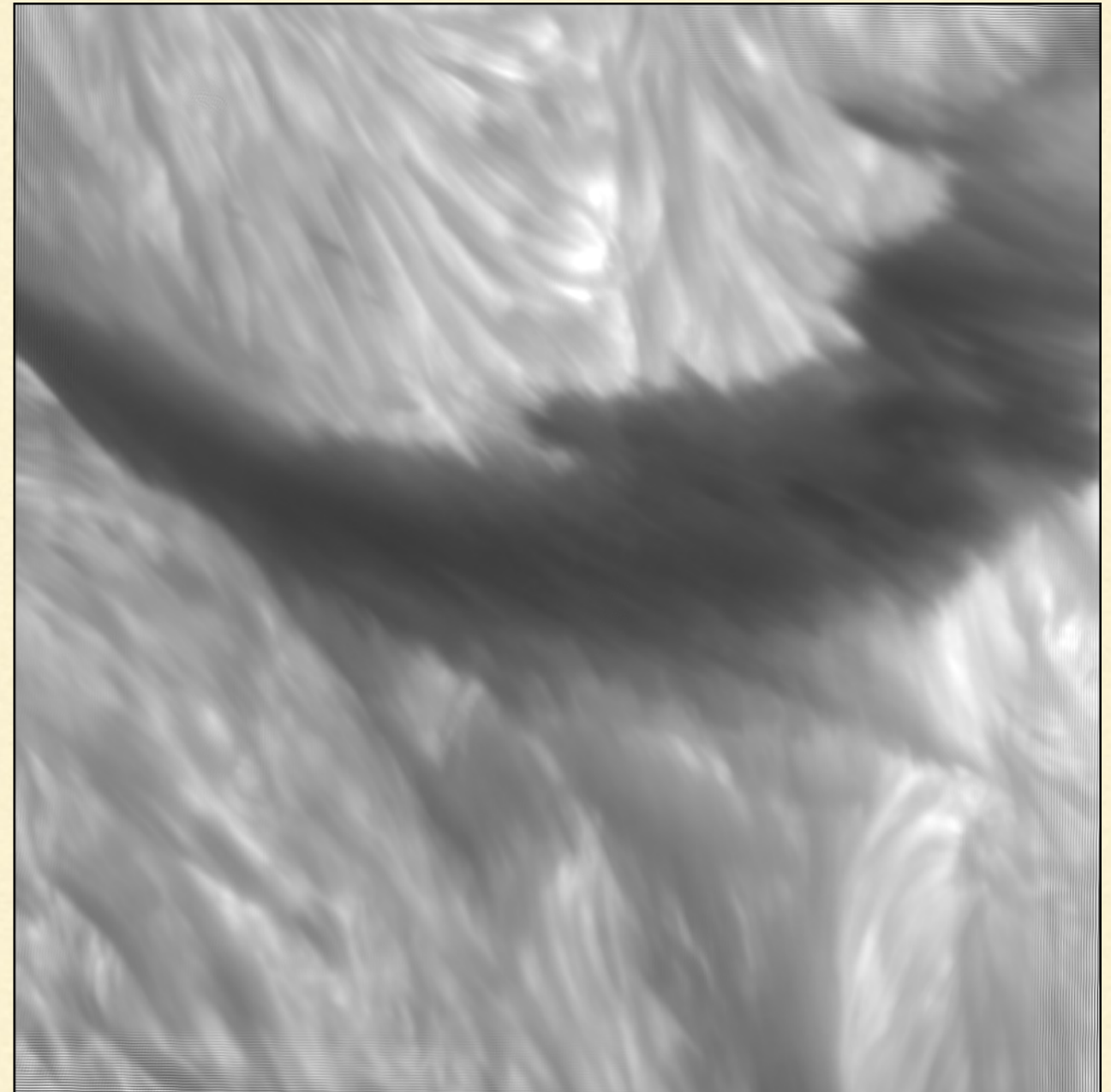
Close to disk center



# Filament :(



7772 Å

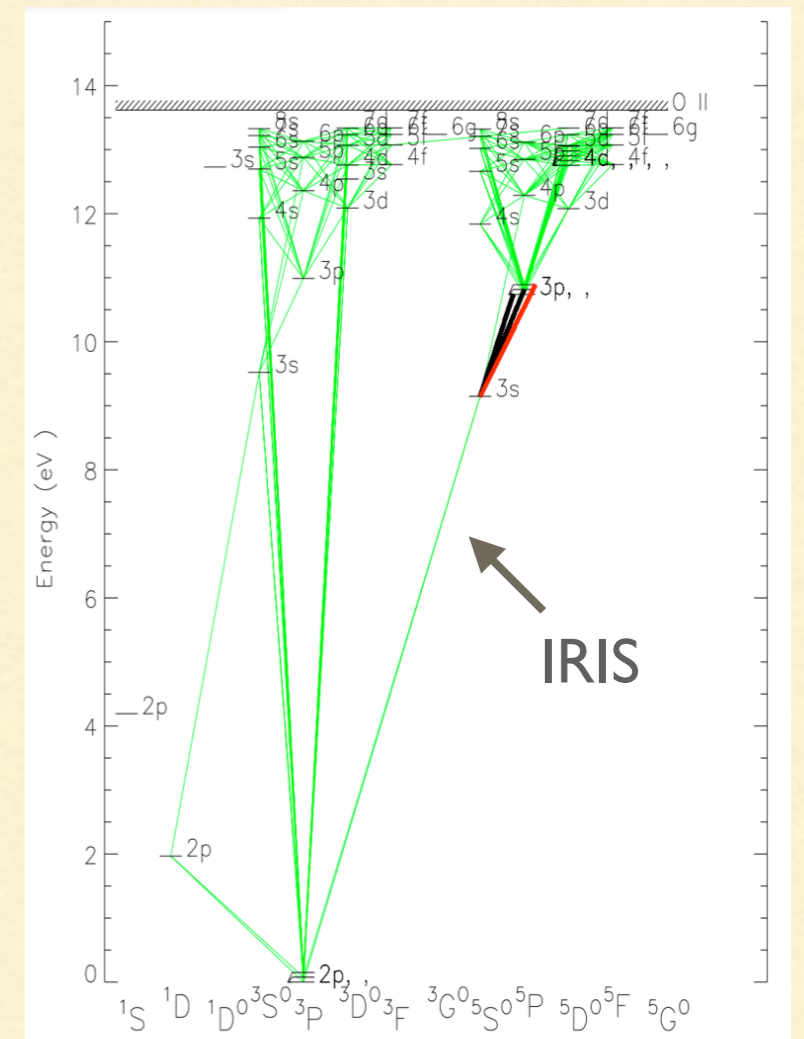


6563 Å (H $\alpha$ )



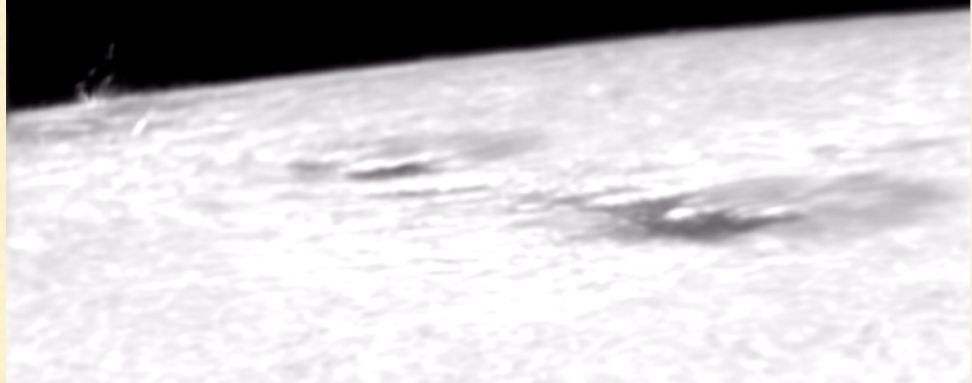
# Future work

- Comparison with synthetic line profile
- Co-observation with IRIS
- Polarimetry data at Ca II (8542 Å)





I

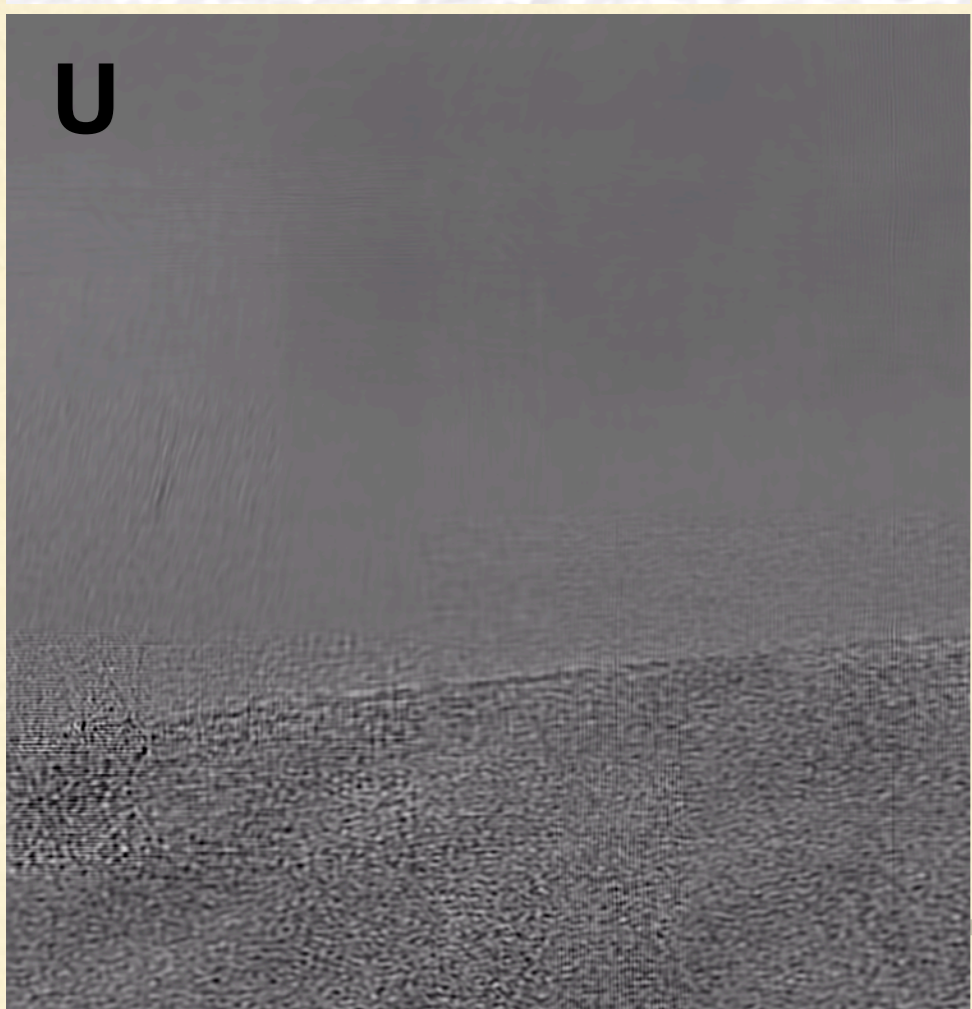


854.2 nm

Q



U



V



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**Thanks!**