

10th Mars international conference

- Knutsen+, First detection of Green Aurora on Mars, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3360.pdf>
 - Diffuse auroraの検出を狙い, SEPイベント時に観測を行う運用を2023/3からスタート. 2024/3月, 4回目の試行で初めてオーロラを検出.
 - Supercamの分光観測で, クリアな5577発光を検出(104R).
 - 可視カメラ(Mastcam-z)でも画像全体にオーロラの光を検出. フォボスからの迷光を取り除く必要があった.
 - 地表面からの観測で, 104 Rのオーロラ発光強度であった.
 - Dustが濃かった場合($\tau=1.1$), Orbiterからのリム観測で2.1 kRに相当.
 - Dustが薄かった場合($\tau=0.3$), Orbiterからのリム観測で210 Rに相当.

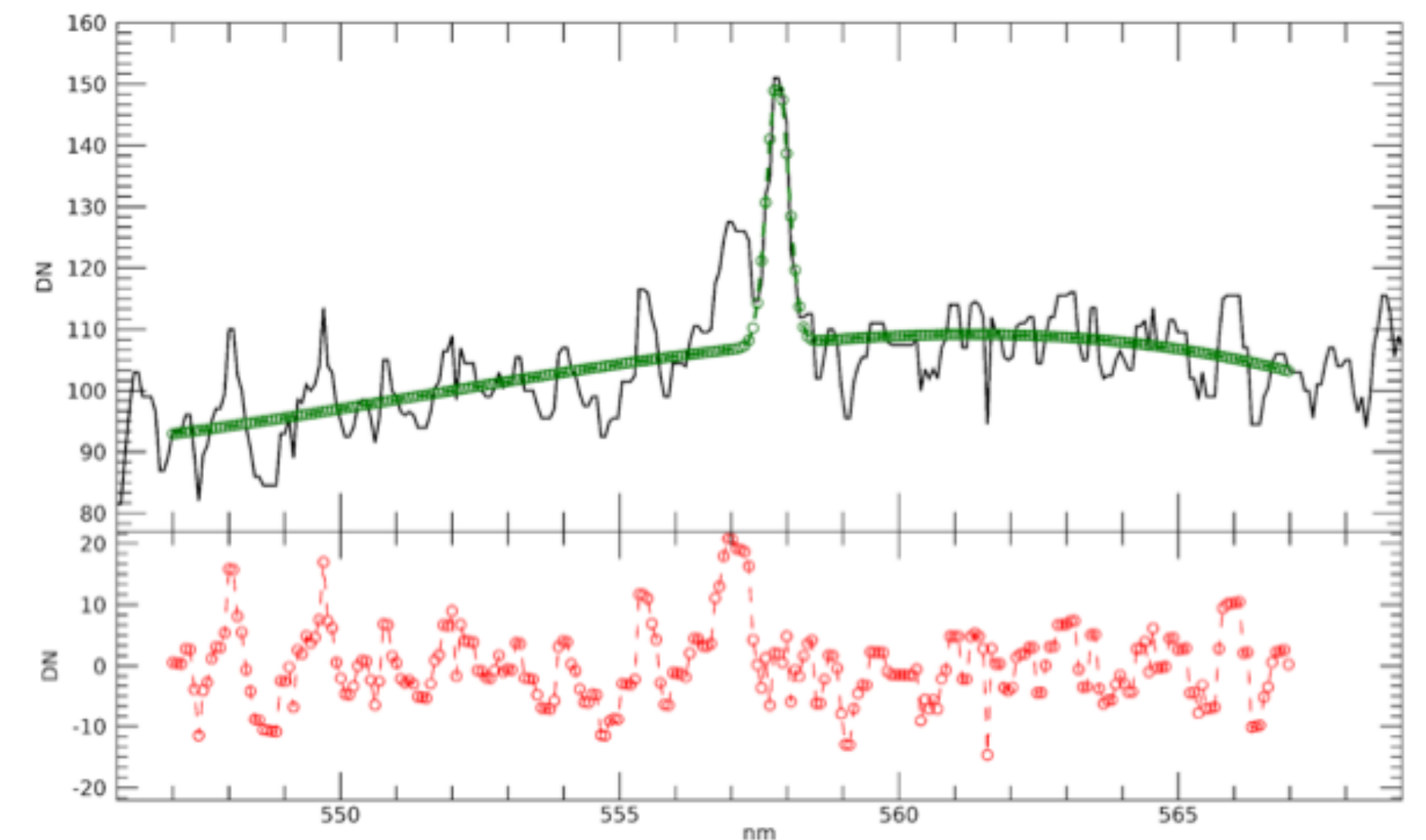


Figure 3: SuperCam spectra and best-fit model. Top panel: the average of 2x75 spectra shown in black, and best-fit model shown in green. Bottom panel: residual shown in red.

10th Mars international conference

- Knutsen+, First detection of Green Aurora on Mars, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3360.pdf>
- Chaffin+, Hydrogen measurements from MAVEN & EMM, enhancement of hydrogen density at the northern spring season, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3285.pdf>
- Al-Mazmi+, Overview of the EMM mission results, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3409.pdf>
- Curry, Hara+ First observation of atmospheric spattering of Mars, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3464.pdf>
- Martin+, Validation of dust retrievals from different datasets, useful for MMX study, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3190.pdf>
- Rubanenko+, Surface Wind from ANALYSES OF SAND DUNES, Global patters of the derived wind filed is consistent with dust transport, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3192.pdf>
- Hayne+, CO₂-dust storm cycle, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3472.pdf>
- Bickel+, Mapping of potential Chloride Deposits on Mars, non-uniform distribution of Cl deposits, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3321.pdf>, also <https://boris-portal.unibe.ch/entities/product/e9507c45-33bc-4b20-9b69-e665e6b2ecea>
- Lo+, Update of MSL SAM measurements, C and O isotopic ratio in CO₂ is increased by ~10‰ at Ls=250. <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3032.pdf>
- Montmessin+. Update of CH₄ search by TGO, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3145.pdf>
- Viscardy+, Questioning the reliability of CH₄ detections on Mars. <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3363.pdf>
- Aoki+. 6 Years observations of Water and CO from TGO/NOMAD, <https://www.hou.usra.edu/meetings/tenthmars2024/pdf/3100.pdf>