

BAG report_Nury (26/11/21 – 28/11/21)

The session was used to collect a dataset on a small membrane protein named TREK1-TREK2. This sample comes with two challenges: it is small (70 kDa) and present a C2 pseudo-symmetry. We imaged it twice before at CM01 (one in-house session in the early days, a BAG session last year) without being able to derive a decent 3D reconstruction from the data. However, this time, bingo! Thanks to a series of improvements in the construct, in the disc reconstitution and in the grid preparation, a ~ 3 Å reconstruction can be obtained, and will yield a paper in 2022. It was also shown that, even with the same large number of images, no reconstruction can be obtained at the IBS Glacios. Therefore we are likely to ask for slots again to obtain other conformations in 2022!

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