Activity Report –CM01 – 15 to 18 June 2018

We aim at solving the structure of temporal supercomplexes formed around Photosystem I (PSI) during steady state and under stress conditions by the cryo EM technique. As a first step we compared the structure of isolated Dunaliella PSI obtained by X-ray crystallography and cryo-EM. We solved the crystal structure of this supercomplex at 3.5 A resolution (unpublished) and collected 2040 movies at the ESRF cryo-EM facility from the same material used for crystallization. Initial 3D classification resulted in the attached density maps that will certainly improved by further analysis of the data in hand. We aim at obtaining similar resolution of about 3.5 A from the cryo-EM data. Attached is the 3D map obtained so far from our last experiment.

The 3 days experiment excided all my expectations.