Séminaire

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CONFÉRENCIER INVITÉ | Vendredi 15 Septembre 2017 à 11h | Salle des séminaires

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Electron 3D crystallography and single particle cryo-EM of membrane proteins for visualization of charges

Electron 3D crystallography is a useful method for structure analysis from tiny and thin crystals of membrane proteins and protein complexes, which often yield crystals too small or too thin for even the synchrotron X-ray beam and X-ray free electron laser. More importantly, it can visualize the charged states of amino-acid residues and metals, as the diffraction pattern formed by elastically scattered electrons is directly related to the distribution of Coulomb potential. Here I introduce structure determination with charges, and discuss further applications including a suitable treatment of electron scattering factors of charged atoms. The topic covers a hybrid approach of single particle cryo-EM and electron 3D crystallography for structure analysis of membrane proteins.

Hôte : Wai-Li Ling (IBS/Groupe de Microscopie Electronique et Méthodes)

L'accès au campus EPN nécessite un avis de rendez-vous
Contactez O. Cavoret (au moins 48h à l'avance) - T. 04 57 42 87 04 - email : ibs.seminaires@ibs.fr