Colloque 2017
Mardi 14 novembre 2017
17h00 – 18h00
Auditoire A, École de Physique 24
Quai Ernest Ansermet, Genève

Three-dimensional nanoscale images of INTELLIGENCE

Par
le Professeur
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Natural and artificial intelligence are defined by wiring diagrams for circuits implemented using proteins and silicon respectively. Remarkably, both biology and silicon chip fabrication are more advanced in their capacity to define the platforms for intelligence than is the technology for imaging the outcomes. Conventional high-resolution microscopy for imaging the interior of three-dimensional objects typically entails destructive sample preparation followed by electron microscopy of resulting surfaces or sections. Here we describe X-ray ptychography, a mixed real space/reciprocal space (”wavelet”) technique, which is non-destructive and provides three-dimensional images at steadily improving resolution, which earlier this year reached 15 nanometers. We show applications to integrated circuit inspection, and give perspective concerning applications to brain science.


Le colloque sera suivi d’un apéritif dans le hall de l’École de Physique Il est conseillé d’utiliser le parking public du Bd d’Yvoy