UNIVERSITÉ DE GENÈVE

FACULTÉ DES SCIENCES
Département de physique
nucléaire et corpusculaire

SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

SUJET: **Big Data and Big Science: from the LHC to personalized cancer treatment**

PAR: **Dr Mireia Crispin Ortuzar**
University of Cambridge, UK

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LIEU: Ecole de physique, Grand Auditoire A
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RÉSUMÉ:

Modern science is characterized by the pursuit of gigantic enterprises, both conceptually and in terms of scale and infrastructure – from the search for new fundamental particles beyond the Higgs boson, to the development of personalized medicine. They all have one ingredient in common: the need to analyse large amounts of data. In this talk we will discuss which elements of traditionally data-heavy fields such as particle physics are relevant to the analysis of large-scale medical data, and vice-versa. We will then analyze how the increasing availability of digital patient data, especially medical imaging and genomics, is transforming the oncology landscape, focusing on some of the most recent studies that are paving the way towards a predictive, data-driven and patient-specific approach to cancer care.

INFORMATION : http://dpnc.unige.ch/seminaire/annonce.html
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