



John Adams Institute for Accelerator Science Lecture Series

Wednesday 6th April 2016 at 2:30 pm

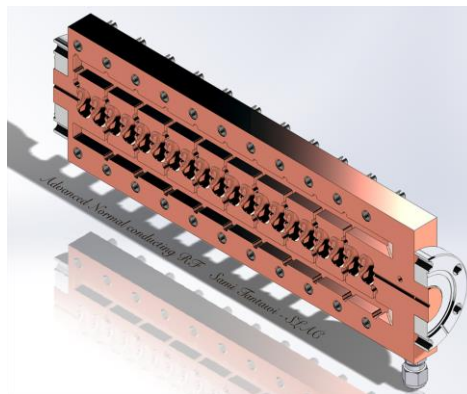
Dennis Sciama Lecture Theatre, Denys Wilkinson Building

Accelerator Research in the U.S. for High Energy Physics: A biased perspective

William Barletta (USPAS/ MIT) & Martin Breidenbach (SLAC)

The U.S. could move boldly toward accelerating transformational accelerator research for high-energy physics. Profound questions remain to be answered in particle physics; recent discoveries reconfirm the value of continued investments. However, going beyond the present generation of high energy accelerators will require changing the capability-cost curve of accelerators, which can only happen through an aggressive, sustained, and imaginative R&D program aimed at building the future accelerators at a dramatically lower cost. Both of us were members of Department of Energy panel that recently studied the potential structure of such a research program. We participated fully in the process and approve the report. Nonetheless, our experience led us to continue and extend our analysis of the issues that will drive accelerator research aimed at future accelerators for high-energy physics with the aim of informing interested physicists from all disciplines, not just accelerator experts. Broadly, we will look at prospects for proton-proton colliders and electron-positron colliders – all interlaced with our biases and (and perhaps not politically correct) opinions.

The talk will be given by W. Barletta



For further details contact Glenn Christian at glenn.christian@physics.ox.ac.uk