

## **New Challenges for Particle Accelerators in the 21<sup>st</sup> Century**

Professor Mike Poole

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Charged particle accelerators have already had a major influence on science and technology progress in the modern world. Originally developed for fundamental research (e.g. splitting the atom), they are now much more widely employed, ranging



from high-energy and nuclear physics, through neutron and radiation sources, to medical, industrial and perhaps even energy-generation applications. The basic features of accelerators will be reviewed and the more demanding recent evolutions identified. Examples of particular challenges in both the physics and engineering of accelerators will be given, illustrated by modern techniques and technologies. Finally, a UK strategic perspective will be outlined.

Light refreshments will be available from 5.30 pm

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