

4 May 2012

Dear Sir/Madam,

Capital Investment Roadmap

The Institute of Physics is a leading scientific society promoting physics and bringing physicists together for the benefit of all. It has a worldwide membership of around 40,000 comprising physicists from all sectors, as well as those with an interest in physics. It works to advance physics research, application and education; and engages with policy makers and the public to develop awareness and understanding of physics. Its publishing company, IOP Publishing, is a world leader in professional scientific communications.

The Institute welcomes the opportunity to respond to the RCUK's consultation for a Capital Investment Roadmap. We have submitted the following 10 submissions on behalf of the physics community using the online facility:

- A national user facility for electron microscopy
- Next generation dark matter experiments
- Next generation particle accelerators
- Next generation particle detectors
- Particle accelerator R&D facilities
- Revitalisation of the UK's role in Nuclear Physics in Europe
- UK solid-state NMR
- UK space weather forecasting capability
- Upgrades to the ALICE R&D accelerator
- Upgrades to the ISIS neutron and muon source.

However, we should emphasise that this is not an exhaustive list of physics projects requiring capital investment, but simply those which were forwarded to us by members of the community within the timescale of the consultation exercise. Thus, we want to make clear that the proposals submitted by the Institute were not prioritised or tensioned against each other, and do not represent the totality of the capital requirements of the physics research base.

In addition, please note that some members of the physics community requested the Institute to submit proposals that they may have already submitted directly to RCUK.

Yours faithfully,



Tajinder Panesor MInstP
Manager, Science Policy