UKNIBC The UK National Ion Beam Centre – an EPSRC National Research Facility

ION BEAM CENTRE

The Surrey Ion Beam Centre is an ISO9001 certified part of the UKNIBC, funded by EPSRC to support micro-electronics and quantum technology research and development by academia and industry in the UK

The Ion Beam Centre allows users to undertake a wide variety of research using ion implantation, ion beam analysis (IBA) and micro-beam analysis. The lon Beam Centre also has extensive processing and characterization facilities specifically for semiconductor research.

The facility includes ion implantation facilities from 2keV up to 4MeV for most ions in the periodic table. End stations for the accelerators are available in a class 100 clean room environment specifically for the support for semiconductor applications, hot and cold implantation is also available on sample sizes up to 40x40cm

Ion beam analysis techniques include RBS. ToF-ERD. PIXE. PIGE. NRA. IBIC and IBIL. Full ambient analysis capability available.

New deterministic and single ion implanters developed specifically in support of solid state quantum technology applications available.



The IBC supports ~£124M of EPSRC grants EPSRC provide ~£1M/annum to support UK academia access to the UKNIBC

FU and commercial users contribute ~f800k/annum

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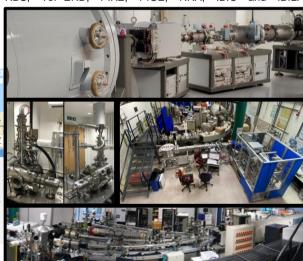
Max South

Departamento de Bioingenieria e Ingenieria Aeroespacial, Universidad Carlos III de Ghent University, Belgium Ecole Polytechnique Federale de Lausann Delft University of Technology, Netherlands University of Bern, Switzerland Norwegian University of Sci & Tech. Norwa

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