Letter to detector and LHC machine communities to introduce WP8.4

Dear colleague

Re: Request for contacts on irradiated materials and components for a common database within the AIDA project

I am writing to introduce our work package on a common database for irradiated materials and components, as part of the AIDA (Advanced European Infrastructures for Detectors at Accelerators) project.

This database is intended to collect and provide results on radiation hardness of various materials and components, that can be used for their selection, if used in a radiation environment.

For this purpose, we need to establish a list of contacts, and we ask you to kindly disseminate this request to experts, and ask them to contact us (Email: simon.canfer@stfc.ac.uk).

We will then ask the experts to help filling this database, by adding data (or links to data) on materials they have tested. The database will be made accessible to the community via the web.

We want the work to produce useful results in a form that is easy to access and so we value your opinions as a potential suppliers, and users, of this information.

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More information at aida.web.cern.ch

The AIDA project is a European Union Framework 7 project which started in February 2011.

“Advanced European Infrastructures for Detectors at Accelerators” aims to improve the key infrastructures required for detector development, with trans-national access to test beams and irradiation facilities. AIDA’s objectives are aimed at four projects in line with the European Strategy for Particle Physics: the LHC upgrade, Linear Colliders (ILC/CLIC), accelerator-driven Neutrino facilities and B-physics facilities (Super-B).”

Qualification of components and a common database (WP 8.4)

In this work package we aim to provide the communities with information on key properties related to radiation damage effects on materials and components for the design and

qualification of detector and accelerator components. The material properties will include, for example, density, expansion coefficient, elasticity modulus, and electrical properties.

The working group consists of:
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