



AIDA WP8.4

Qualification of components and common database

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3 subtasks:

- Review existing data and experience from LHC, define test programme
- Define test procedures and conduct tests on selected components
- Set-up and publish a web database compiling the information above



Working Group

- INFN: Chiara Meroni, Mauro Citterio, Francesco Forti, Filippo Bosi, Mauro Menichelli
- ETHZ: Francesca Nessi-Tedaldi, Guenther Dissertori
- CERN: Michael Moll (WP8 Leader)
- Associate members



Deliverables

- Deliverable 8.4.1, “Experience at LHC and definition of test programme” delayed from M12 to M14
- Deliverable 8.4.2, Populated data base of components qualification M48



Areas of interest

- Effect of radiation on:
 - INFN: Electronics (transistors and ASICs), mechanical and thermal design of vertex trackers, silicon detectors and optical links
 - ETHZ: scintillator crystals
 - RAL: polymer composites



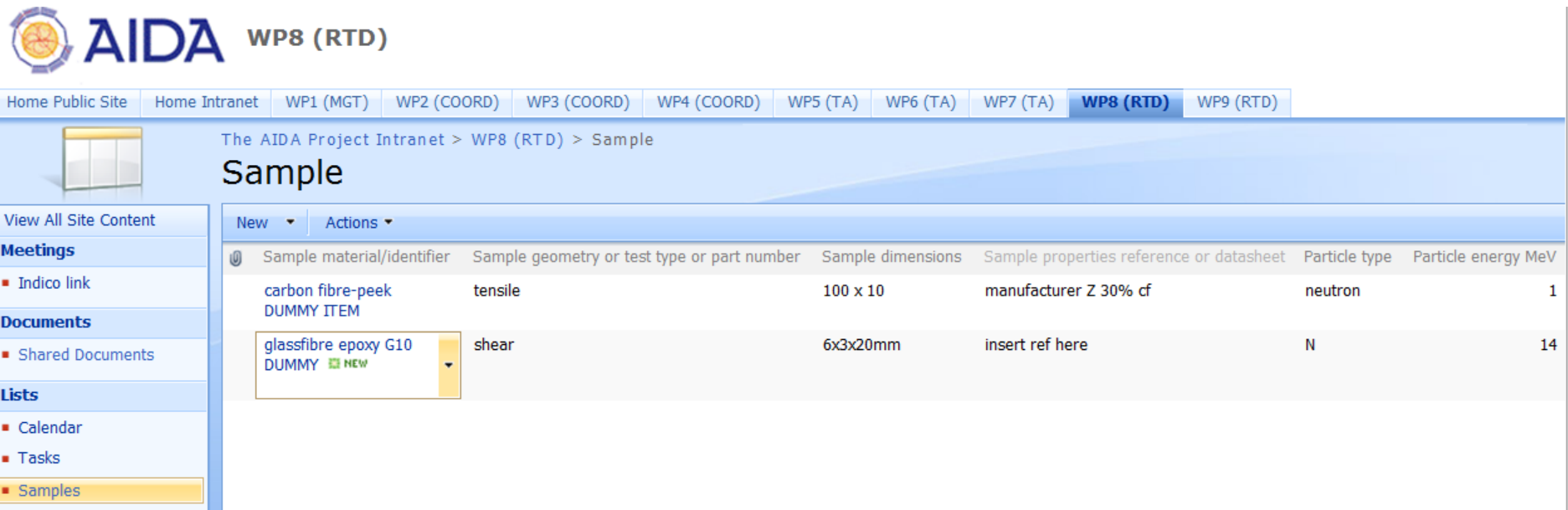
Progress

- We circulated a letter to the community
- 38 contacts made from labs worldwide
- Literature review in progress



Database

- At present the database is implemented as a list on AIDA WP8.4 Sharepoint, and is unpopulated. 16 Fields were agreed within the WP8.4 working group.
- Experience will show whether a traditional DB is needed.
- Expertise for writing a “mySQL” DB identified at STFC if required- this is not a trivial task and will use significant resource
- Design of the database is very important as it impacts user experience and we will consult users



The screenshot displays the AIDA Project Intranet interface. At the top left is the AIDA logo. Below it is a navigation bar with tabs for 'Home Public Site', 'Home Intranet', and work packages WP1 through WP9. The 'WP8 (RTD)' tab is selected. The main content area shows a breadcrumb trail: 'The AIDA Project Intranet > WP8 (RTD) > Sample'. Below this is a 'Sample' list view with columns for 'Sample material/identifier', 'Sample geometry or test type or part number', 'Sample dimensions', 'Sample properties reference or datasheet', 'Particle type', and 'Particle energy MeV'. Two sample entries are visible: 'carbon fibre-peek DUMMY ITEM' and 'glassfibre epoxy G10 DUMMY' (marked as 'NEW'). A left-hand navigation pane contains links for 'Meetings', 'Documents', and 'Lists', with 'Samples' highlighted.

AIDA WP8 (RTD)

Home Public Site Home Intranet WP1 (MGT) WP2 (COORD) WP3 (COORD) WP4 (COORD) WP5 (TA) WP6 (TA) WP7 (TA) **WP8 (RTD)** WP9 (RTD)

The AIDA Project Intranet > WP8 (RTD) > Sample

Sample

New	Actions	Sample material/identifier	Sample geometry or test type or part number	Sample dimensions	Sample properties reference or datasheet	Particle type	Particle energy MeV
		carbon fibre-peek DUMMY ITEM	tensile	100 x 10	manufacturer Z 30% cf	neutron	1
		glassfibre epoxy G10 DUMMY NEW	shear	6x3x20mm	insert ref here	N	14

View All Site Content

Meetings

- Indico link

Documents

- Shared Documents

Lists

- Calendar
- Tasks
- Samples**

Plan

- Complete review, deliverable 1 (M14)
- Continue to gather existing radiation test data
- Write a test programme for materials and components (M18 milestone)
- List materials and components requiring further tests (M24 milestone)
- Trial sharepoint DB with few users and:
 - Decide whether to commission mySQL DB



- Input from the community is essential and welcome
 - Data
 - New interesting materials
 - Opinions on database



Spare slides



