

AIDA

Advanced European Infrastructures
for Detectors at Accelerators

AIDA WP2 Session

Frank Gaede, DESY

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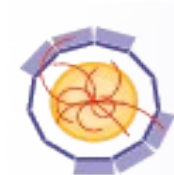
AIDA Annual Meeting

March 27, 2014

Introduction	<i>Dr. Pere MATO VILA et al.</i>
<i>Böcklsaal, Vienna University of Technology</i>	09:00 - 09:05
Status of DD4hep	<i>Markus FRANK</i> 
<i>Böcklsaal, Vienna University of Technology</i>	09:05 - 09:20
Status of USolids	<i>Dr. Pere MATO VILA</i> 
<i>Böcklsaal, Vienna University of Technology</i>	09:20 - 09:35
Status of Tracking Toolkit	<i>Christoph Gerhard ROSEMANN</i>
<i>Böcklsaal, Vienna University of Technology</i>	09:35 - 09:50
Status of Pile-Up Tracking	<i>Gigi CAPPELLO</i> 
<i>Böcklsaal, Vienna University of Technology</i>	09:50 - 10:05
Status of Trigger Simulation Tool	<i>Jelena ILIC</i>
<i>Böcklsaal, Vienna University of Technology</i>	10:05 - 10:20
Update on Vertexing tools	<i>Ferenc SIKLÉR</i>
<i>Böcklsaal, Vienna University of Technology</i>	10:20 - 10:35

focus on status of software
and upcoming deliverables

Cellular automaton track finding in Belle II	<i>Rudolf FRUHWIRTH et al.</i> 
<i>Böcklsaal, Vienna University of Technology</i>	11:15 - 11:30
Status of Alignment	<i>Christoph HOMBACH</i>
<i>Böcklsaal, Vienna University of Technology</i>	11:30 - 11:45
Status of Particle Flow	<i>Prof. Mark Andrew THOMSON</i>
<i>Böcklsaal, Vienna University of Technology</i>	11:45 - 12:00
Discussion - Final Deliverables	<i>Dr. Pere MATO VILA et al.</i>
<i>Böcklsaal, Vienna University of Technology</i>	12:00 - 12:45



Deliverable Number ⁶¹	Deliverable Title	Partners (lead beneficiary)			Dissemination level ⁶³	Delivery date ⁶⁴
D2.1	Project web infrastructure to document software packages	CERN	5.00	O	PU	3
D2.2	Central code repositories and other infrastructure required for the software development	DESY	5.00	O	PP	4
D2.3	Software design for geometry toolkit including the interfaces for the reconstruction toolkits	CERN, DESY, LLR, UniGla, STFC			PU	12
D2.4	Software design for tracking toolkit	DESY, CERN, OeAW, KFKI				12
D2.5	Software design for PFA tools	Ucam, LLR, CERN,			PU	12
D2.6	Design for handling the pile-up in sLHC	INFN, NTU, KFKI			PU	30 17
D2.7	Software toolkit for detector geometry, materials and detection technologies	CERN, DESY, LLR, UniGla, STFC			PU	38
D2.8	Software toolkit with tracking algorithms	DESY, CERN, OeAW, KFKI				38
D2.9	Particle Flow software tools	Ucam, LLR, CERN,			PU	38
D2.10	Alignment tools software tools	UniMan	30.00	O	PU	38
D2.11	Trigger simulation software tool	STFC	20.00	O	PU	38
		Total	350.00			

done

done

done

done

done

done

next

Milestone number ⁵⁹	Milestone name	Partners (lead beneficiary)		Comments	
MS10	Running first prototype of the particle flow algorithm.	Ucam,LLR,CERN	10	Application to LC detector (Task 2.3)	done
MS11	Running prototype of tracking toolkit including some algorithms	DESY	18	Application to ILD-TPC simulation (Task 2.2)	done
MS12	Running prototype of the geometry toolkit	CERN, DESY, LLR	26	Application to ILD detector simulation (Task 2.2)	done
MS13	Running prototype of the tracking code for the pile-up	INFN, NTU, KFKI	26	Application to sLHC simulation (Task 2.3)	done
MS14	Integration of tracking toolkit into LC software framework	DESY, CERN, OeAW	44	Validation of physics performance (Task 2.3)	next
MS15	Application of PFA tools to sLHC detectors	Ucam, LLR	44	Demonstration of concept (Task 2.3)	
MS16	Application of alignment tools to sLHC	UniMan	44	Validation of performance (Task 2.3)	
MS17	Integration of pile-up tracking code in sLHC software frameworks	INFN, NTU, KFKI	44	Validation of tracking efficiency (Task 2.3)	

- all deliverables are due in M38 - i.e. now :
- D2.7 software toolkit for geometry description
 - USolids & DD4hep
 - CERN
- D2.8 software toolkit with tracking algorithms
 - aidaTT, pile-up tracking (CMS), vertexing tools, CA tools
 - DESY (INFN, HEPHY, Wigner)
- D2.9 particle flow software tools
 - pandoraPFA, Arbor
 - Cambridge (LLR)
- D2.10 alignment software tools
 - LHCb and telescope alignment tools
 - Manchester
- D2.11 trigger simulation tools
 - trigger simulation tkLayout
 - STFC

- for the deliverables we are expected to have:
 - first 'final' version of the software tagged in a public repository, e.g. the aidasoft svn
 - documentation:
 - manuals
 - web page
 - code documentation
 - deliverable report (5-10 pages) with pointers to the above
- reports are due end of april
 - 1-2 months delay does not need formal justification
 - if delayed more than 2 months, we need to write a short explanation
- use the talks and discussion in the end to see where we are with respect to these goals