

Ecole "GEANT4" de l'IN2P3
ORSAY, 18 au 22 mai 2015

Dates : 18 mai 2015 – arrivée des participants

18 mai 2015	10:30	Presentation de l'école	Ivana Hrivnacova (IPNO)
	10:45	Introduction in Geant4 Exercice: <i>Building Geant4 Application</i>	Ivana Hrivnacova (IPNO), Laurent Garnier (LAL) all
	12:30	Déjeuner	
	14:00	Geometry & Material Exercice: <i>Adding more realistic geometry</i>	Ivana Hrivnacova (IPNO) all
	15:30	Pause	
	16:00	User Documents, Visualization, Xcode Exercice: <i>Visualization attributes, inspecting geometry</i>	Ivana Hrivnacova (IPNO), Laurent Garnier (LAL) all
	18:00	fin de session	
	20:00	Dîner	

19 mai 2015	09:00	Primary Particles Exercice: <i>Primary generator class</i>	Marc Verderi (LLR) all
	10:30	Pause	
	11:00	Random number generators, User Interface Exercice: <i>Random numbers, Use of G4GenericMessenger</i>	Marc Verderi (LLR), Laurent Garnier (LAL) all
	12:30	Déjeuner	
	14:00	Physics overview, physics list Exercice: <i>Adding physics list, exploring physics processes</i>	Marc Verderi (LLR) all
	15:30	Pause	
	16:00	Physics processes, cuts, regions Exercice: <i>Cuts, regions</i>	Marc Verderi (LLR) all
	18:00	fin de session	
20:00	Dîner		

20 mai 2015	09:00	Analysis	Ivana Hrivnacova (IPNO)
	10:30	Exercice: <i>Adding histograms, ntuples</i>	all
	10:30	Pause	
	11:00	More on Kernel, User Interface Exercice: <i>Extend GUI</i>	Ivana Hrivnacova (IPNO), Laurent Garnier (LAL) all
	12:30	Déjeuner	
	14:00	User Actions and Scoring Exercice: <i>Complete tracker detector</i>	Marc Verderi (LLR), Ivana Hrivnacova (IPNO) all
	15:30	Pause	
	16:00	Touchables, More on Visualization Exercice: <i>Complete calorimeter, Explore "vis" commands</i>	Ivana Hrivnacova (IPNO), Laurent Garnier (LAL) all
18:00	fin de session		
20:00	Dîner		

21 mai 2015	09:00	Multithreading – 1 Exercice: <i>Migrate an application in multithreading</i>	Ivana Hrivnacova (IPNO) all
	10:30	Pause	
	11:00	Multithreading – 2 Exercice: <i>Configuring MT application, data race</i>	Ivana Hrivnacova (IPNO) all
	12:30	Déjeuner	
	14:00	More on Geometry Exercice: <i>Adding magnetic field, upgrade of geometry</i>	Ivana Hrivnacova (IPNO) all
	15:30	Pause	
	16:00	Geometry Persistency, More on Multithreading Exercice: <i>Export geometry in GDML</i>	Ivana Hrivnacova (IPNO) all
	18:00	fin de session	
20:00	Dîner		

22 mai 2015	09:00	More on Physics (I) Exercice: <i>Energy deposit depending on particle species</i>	Marc Verderi (LLR) all
	10:30	Pause	
	11:00	More on Physics (II) Exercice: <i>Production of secondaries with cuts</i>	Marc Verderi (LLR) all
	12:30	Déjeuner	
	14:00	Event Biasing Exercice: <i>Shielding</i>	Marc Verderi (LLR) all
	15:30	Closing session	all
	16:00	fin de session	

22 mai 2015 : départ des participants