# particle. physics

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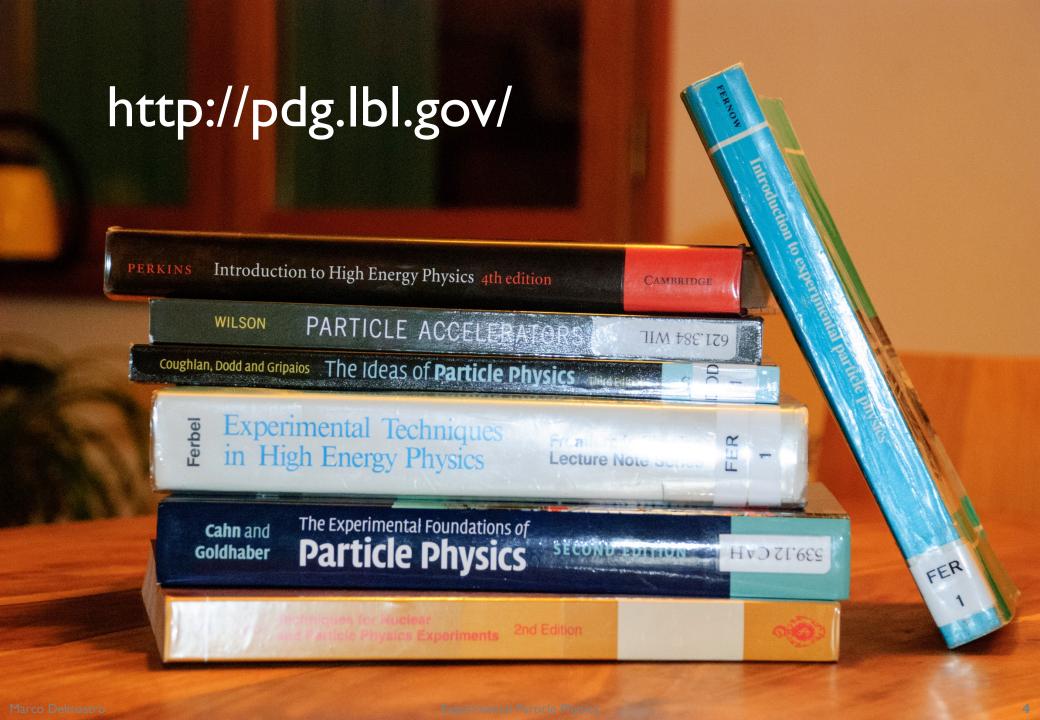
"Culture isn't knowing when Napoleon died. Culture means knowing how I can find out in two minutes." Umberto Eco

http://www.spiegel.de/international/zeitgeist/spiegel-interview-with-umberto-eco-we-like-lists-because-we-don-t-want-to-die-a-659577-2.html

# "If I could remember the names of all these particles, I'd be a botanist!"



Enrico Fermi



# Program

Schedule	Wednesday	Thursday	Friday
2018	Jan 24 <sup>th</sup>	Jan 25 <sup>th</sup>	Jan 26 <sup>th</sup>
09:00			
	Experimental	Experimental Astroparticle	Experimental
	Subatomic Physics	Physics	Subatomic Physics
	lecture 1	lecture 1	lecture 4
	Marco Delmastro	François Montanet	Marco Delmastro
10:30	LAPP Annecy	LPSC Grenoble	LAPP Annecy
10:45	Coffee Break	Coffee Break	Coffee Break
	Experimental	Experimental Astroparticle	Experimental
	Subatomic Physics lecture 2	Physics lecture 2	Subatomic Physics tutorial 2
	lecture 2	lecture 2	tutoriai 2
	Marco Delmastro	François Montanet	Marco Delmastro
12:15	LAPP Annecy	LPSC Grenoble	LAPP Annecy
	BREAK	BREAK	BREAK
14:00	Experimental Cosmology	Experimental	Experimental
	tutorial 2	Subatomic Physics	Subatomic Physics
		lecture 3	lecture 5
	Juan Macias Perez  LPSC Grenoble	Marco Delmastro	Marco Delmastro
		LAPP Annecy	LAPP Annecy
15:30	Coffee Break	Coffee Break	Coffee Break
15:45	Experimental Cosmology	Experimental Division	Experimental Physics
	tutorial 3	Subatomic Physics tutorial 1	Subatomic Physics tutorial 3
	Juan Macias Perez	tatoriai i	tatoriai o
	LPSC Grenoble	Marco Delmastro	Marco Delmastro
17:15		LAPP Annecy	LAPP Annecy
17:15			

Monday Jan 29 <sup>th</sup>		
Jan 29		
Experimental Astroparticle		
Physics		
lecture 3		
François Montanet		
LPSC Grenoble		
Coffee Break		
Experimental Astroparticle		
Physics		
tutorial 1		
François Montanet		
LPSC Grenoble		
WORKING LUNCH		
Experimental		
Subatomic Physics		
tutorial 4		
Marco Delmastro		
LAPP Annecy		
Coffee Break		
Experimental		
Subatomic Physics		
tutorial 5		
Marco Delmastro		
LAPP Annecy		
Future High-Energy Linear		
Collider		
JUAS Seminar		
Louis Rinolfi		

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## **Program**

### Wednesday

### Lecture I

units, quantities, kinematics, measurements

### Lecture 2

a few things about particle accelerators

### Thursday

### Friday

### Lecture 4

systems used to identify and measure particle properties

### Lecture 5.a

particle experiment design

Tutorial C.a

event display challenge

### Monday

### Tutorial C.b

analysis of "classic"
experiments
(students' presentation)

### Lecture 6

detection of "invisible" particles

### Lecture 3

particle interactions in particle detectors

### Tutorial A

particle kinematics

### Tutorial B

particle interactions and detector response

### Homework

classical paper
(reading + presentation)

### Lecture 5.b

S/B optimization

### **Tutorial D**

how to optimize the signal significance?

(have your laptop ready!)

### Homework

Nobel Lecture (reading + video)

### Homework

particle kinematics (exercises)