



**1999-2000 ACADEMIC TRAINING PROGRAMME  
LECTURE SERIES FOR POSTGRADUATE STUDENTS**

**1st Term  
27 September – 17 December 1999**

**11, 12, 13, 14, 15 & 18 October**

10.00-12.00 hrs – (early starting time)

11, 12, 13 & 18 October : Auditorium, bldg. 500

14 and 15 October : Council Chamber, bldg 503

**Introduction to Particle Accelerators**

by E.J.N. WILSON / AC Division

**8, 9, 10, 11 & 12 November**

10.00-12.00 hrs – (early starting time)

8, 10, 11 & 12 November – Auditorium

9 November – Council Chamber

**Field Theory**

by R. KLEISS / Univ. of Nijmegen, NL

**15, 16, 17, 18 & 19 November**

11.00-12.00 hrs – Auditorium

**QCD**

by B. WEBBER / TH Division

**23, 24, 25, 26 & 27 November**

11.00-12.00 hrs – Auditorium

**Standard Model**

by G. ALTARELLI / TH Division

**6, 7, 9 & 10 December**

11.00-12.00 hrs – Auditorium

**Basic Processes and Trends in Gaseous Detectors**

by F. SAULI / EP Division

The lectures are open to all those interested, without application.

The abstract of the lectures, as well as any change to the above information (title, dates, time, place etc.) will be published in the CERN bulletin, the WWW, and by Notices before each term and for each series of lectures.

**ACADEMIC TRAINING**

**LECTURE SERIES FOR POSTGRADUATE STUDENTS**

**11, 12, 13, 14, 15, 18 October**

from 10.00 to 12.00 hrs

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**Introduction to particle accelerators**

by E.J.N. WILSON / CERN-AC

The course is intended for anyone with a technical or scientific background who would like to become familiar with the principles of accelerator design. The level of the course is chosen with the intention of preparing those with no specialist knowledge of accelerator theory for the CERN Accelerator School but is also of interest to a much wider audience. The series of 12 talks span all aspects of circular machines and cover in a simple way the principles of focusing, betatron motion, dispersion, chromaticity, radio-frequency systems, phase stability and beam instabilities while the last takes us into the new millennium.

11 October

10:00 - History of Accelerators

11:00 - The Synchrotron

12 October

10:00 - Focusing & Phase Space

11:00 - Accelerating Cavities

13 October

10:00 - Lattices

11:00 - Circulating Beams

14 October

10:00 - Longitudinal Dynamics

11:00 - Imperfections and Multipoles

15 October

10:00 - Electrons

11:00 - Instabilities

18 October

10:00 - Applications of Accelerators

11:00 - Muon and other Colliders

Module – OPM1

CONTRIBUTING IN A PROJECT  
25, 26 November 1999

|                       |                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type:</b>          | Seminar                                                                                                                                         |
| <b>Duration:</b>      | 2 days                                                                                                                                          |
| <b>Language:</b>      | English                                                                                                                                         |
| <b>Trainer:</b>       | Gilles Vallet                                                                                                                                   |
| <b>Designed for:</b>  | Any person who is or will be involved in a project but who is not directly responsible for the management of the project : Project participants |
| <b>Pre-requisite:</b> | None                                                                                                                                            |
| <b>Objectives:</b>    | To become familiar with modern Project Management approaches and techniques                                                                     |
| <b>Programme:</b>     | Locating oneself in a project<br>Organisation and process<br>Key actions                                                                        |

**PLACES DISPONIBLES/PLACES AVAILABLE**

Des places sont disponibles dans les cours suivants :

*LabView Hands-on - 7.10.99 (am)*  
*LabWindows/CVI Hands-on - 7.10.99 (pm)*  
*LabView Connectivity - 8.10.99 (1 day)*  
*BridgeView Hands-on - 11.10.99 (am)*  
*BridgeView - 12.10.99 (3 days)*  
*Network Programming with Java - 14.10.99 (2 days)*  
*FileMaker - 12.10.99 (4 jours)*  
Utilisation de Visual Basic avec Excel 7.0/97 - 18.10.99 (3 jours)

Si vous désirez participer à l'un de ces cours, inscrivez-vous électroniquement en direct depuis les pages de description des cours dans le Web que vous trouvez à l'adresse : <http://www.cern.ch/Training/>, ou remplissez une "demande de formation" disponible auprès du Secrétariat de votre Division ou de votre DTO (Délégué divisionnaire à la formation). Les places seront attribuées dans l'ordre de réception des inscriptions.

*If you wish to participate to one of these courses, please apply electronically directly from the course description pages that can be found on the Web at : <http://www.cern.ch/Training/> or fill in an "application for training" form available from your Divisional Secretariat or from your DTO (Divisional Training Officer). Applications will be accepted in the order of their receipt.*