

Session Program

11-15 Jul 2016

**First Barcelona Techno Week: Course on
semiconductor radiation detectors**

Introductory concepts

Other Institutes, N06
Institut de Ciències del Cosmos Facultat de Física Martí i Franquès, 1 E-08028 Barcelona

Monday 11 July

09:00

Introductory concepts: Welcome and introduction

Session |

Location: Other Institutes, N06, Institut de Ciències del Cosmos Facultat de Física Martí i Franquès, 1 E-08028 Barcelona |

Conveners: David Gascon, Rafael Ballabriga Sune

09:00–09:05

Welcome

Speaker

Prof. Atilà Herms

09:05–09:15

Introduction to ICCUB

Speaker

Lluís Garrido Beltran

09:15–09:30

Course Introduction

Speakers

David Gascon, Rafael Ballabriga Sune

09:30

09:30

Introductory concepts: Semiconductor Detectors

Session |

Location: Other Institutes, N06, Institut de Ciències del Cosmos Facultat de Física Martí i Franquès, 1 E-08028 Barcelona |

Conveners: Rafael Ballabriga Sune, Erik Heijne

09:30–10:30

70 years of semiconductor nuclear detectors, principles and overview of implementations

Speaker

Erik Heijne

10:30

10:50

Introductory concepts: Semiconductor Physics

Session |

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Conveners: Rafael Ballabriga Sune, Erik Heijne

10:50–11:40

Interaction of photons and electrons with matter

Speaker

Prof. Francesc Salvat

11:40–12:30

Signal formation in semiconductor detectors (I)

Speaker

Erik Heijne

12:30–12:50

Timepix demonstration

Speaker

Erik Heijne

12:50

14:00

Introductory concepts: Semiconductor Physics

Session |

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Convener: Rafael Ballabriga Sune, Erik Heijne

14:00–15:00

Semiconductor detectors: practical Monte Carlo simulation

Speaker

Prof. Francesc Salvat

15:00

15:00

Introductory concepts: Microelectronics and Signal Processing

Session |

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Convener: Rafael Ballabriga Sune

15:00–16:30

Introduction to CMOS

Speaker

Prof. Francesc Serra-Graells

16:30

17:00

Introductory concepts: Microelectronics and Signal Processing

Session |

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Convener: Rafael Ballabriga Sune

17:00–18:30

Pulse processing electronics (I)

Speaker

Paul O'Connor

18:30

Tuesday 12 July

09:00

Introductory concepts: Microelectronics and Signal Processing

Session |

Location: Other Institutes, N06, Institut de Ciències del Cosmos Facultat de Física Martí i Franquès, 1 E-08028 Barcelona |

Convener: Rafael Ballabriga Sune

09:00-10:30

Pulse processing electronics (II)

Speaker

Paul O'Connor

10:30

17:35

Introductory concepts: Practical Monte Carlo Simulation (continuation)

Session |

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18:35