

## **Session Program**

**4-10 Oct 2015**



# **Bulgarian Engineering Teachers Programme**

## ***Lectures***

CERN

# Monday 5 October

08:30

## Lectures

**Session** | **Location:** CERN, 4/3-006 - TH Conference Room | **Convener:** Mrs Svezhina Dimitrova

08:30–09:00 **Welcome to CERN/ Добре дошли в ЦЕРН**

**Speaker**

Rolf Landua

09:00–09:10 **Introduction to the programme / Въведение в програмата**

**Speaker**

Roman Zahariev Zahariev

09:15–10:00 **Introduction to CERN / Въведение в ЦЕРН**

**Speaker**

Svetlomidir Stavrev

10:15–10:55

**Introduction to Particle Physics, accelerators and their future / Въведение във физиката на елементарните частици, въведение в ускорителите и тяхното бъдеще**

**Speaker**

Plamen Iaydjiev

11:00–11:40 **Introduction to Detectors/ Въведение в детектори**

**Speaker**

Plamen Iaydjiev

11:45–12:40 **The Higgs discovery / Откритието на Хигс бозона**

**Speaker**

Leandar Litov

12:40

## Tuesday 6 October

08:20

### Lectures

**Session** | **Location:** CERN, 4/3-006 - TH Conference Room | **Convener:** Mrs Svezhina Dimitrova

08:20-09:10

**Introduction to CERN accelerator complex and its control system / Въведение в комплекса ускорители на ЦЕРН и системи за тяхното управление**

**Speaker**

Alexander Hristov

09:15-10:05

**Overview of magnetic systems used for CERN's accelerators. Design, installation and usage considerations of normal conducting magnets in vacuum and radiation environments/ Преглед на магнитни системи използвани за ускорителите на ЦЕРН. Дизайн, инсталиране и експлоатация на нормално проводими магнитни модули във вакуум и радиационни среди**

**Speaker**

Miroslav Georgiev Atanasov

10:15-10:45

**Introduction to CMS and its Electromagnetic Calorimeter system - design considerations, overview of the construction and function of the ECAL and the Bulgarian experience / Въведение в експеримента CMS и неговия електромагнитен калориметър - преглед на дизайна, конструкцията, функциите на ECAL и българския опит**

**Speaker**

Roman Zahariev Zahariev

10:50-11:40

**LHCb experiment - goals and detector components/LHCb - цели и компоненти на детектора**

**Speaker**

Dr Peter Vankov

11:45-12:40

**Electronics for the TOTEM experiment/ Електроника за TOTEM експеримента**

**Speaker**

Gueorgui Antchev

12:40

## Wednesday 7 October

11:15

### Lectures

Session | Location: CERN, 13/2-005 | Convener: Zornitsa Zaharieva

11:15-12:10

**Detector construction sites and systems for remote personal supervision / Сгради за конструиране на детектори и системи за дистанционно наблюдение на персонала**

**Speaker**

Dimitar Mladenov

12:15-12:45

**Nuclear Electronics Engineering - Everyday Work Challenges / Ядрена електроника - ежедневни предизвикателства**

**Speaker**

Georgi Mitev Mitev

12:45

# Thursday 8 October

14:00

## Lectures

**Session** | **Location:** CERN, 864/1-D02 - BE Auditorium Prevessin | **Convener:** Mrs Svezhina Dimitrova

14:00–14:55 **Medical Physics / Медицинска физика**

**Speaker**

Dr Katia Sergieva

15:10–16:00

**Introduction to Robotics. Service robots and their usage for accessing dangerous environments / Въведение в роботиката. Сервизни роботи и тяхното използване в опасни среди**

**Speaker**

Roman Zahariev Zahariev

16:10–16:55

**Introduction to ALICE - goals of the experiment and detector components/ Въведение в ALICE**

**Speaker**

Peter Hristov

17:00–17:40

**Controls, DC and optical fiber cables at CERN / Управляващи, постоянно токови кабели и оптични влакна в ЦЕРН**

**Speaker**

Georgi Minchev Georgiev

17:45–18:30

**Bulgarian Teachers Programme - lessons, achievements and prospects / Българската учителска програма - уроци, постижения и перспективи**

**Speaker**

Svezhina Dimitrova

18:30–19:00

**Panel Discussion with the lecturers, guides and teachers**

19:55

# Friday 9 October

08:30

## Lectures

**Session** | **Location:** CERN, 13/2-005 | **Convener:** Zornitsa Zaharieva

08:30–08:50

**Management of Engineering Documentation and Equipment at CERN / Управление на инженерна документация в ЦЕРН**

**Speaker**

Tsvetelin Krastev

09:00–09:50

**GRID technologies and their application at CMS / GRID технологии и тяхното приложение в CMS**

**Speaker**

Ivan Glushkov

10:10–10:40

**Mechanical Design and CAD Systems at CERN / Машинен дизайн и CAD системи в ЦЕРН**

**Speaker**

Fani Valchkova

10:45–11:30

**CERN Education / Образованието в ЦЕРН**

**Speaker**

Konrad Jende

11:40