

# Synchrotron radiation

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and

Diamond Light Source

Schedule 2018	Monday Jan 29 <sup>th</sup>	Tuesday Jan 30 <sup>th</sup>	Wednesday Jan 31 <sup>st</sup>	Thursday Feb 1 <sup>st</sup>	Friday Feb 2 <sup>nd</sup>
09:00	Synchrotron Radiation lecture <i>R. Bartolini</i>	Synchrotron Radiation lecture <i>R. Bartolini</i>	Space charge lecture <i>M. Migliorati</i>	Mini-workshop Accelerator Design <i>Ph. Bryant</i>	Space charge lecture <i>M. Migliorati</i>
10:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:15	Synchrotron Radiation lecture <i>R. Bartolini</i>	Synchrotron Radiation lecture <i>R. Bartolini</i>	Space charge lecture <i>M. Migliorati</i>	Mini-workshop Accelerator Design <i>Ph. Bryant</i>	Space charge lecture <i>M. Migliorati</i>
11:15	Synchrotron Radiation tutorial <i>R. Bartolini</i>	Synchrotron Radiation tutorial <i>R. Bartolini</i>	Space charge lecture <i>M. Migliorati</i>	Mini-workshop Accelerator Design <i>Ph. Bryant</i>	Space charge lecture <i>M. Migliorati</i>
12:15	WORKING LUNCH	BREAK	BREAK	BREAK	BREAK
14:00	Synchrotron Radiation lecture <i>R. Bartolini</i>	Synchrotron Radiation lecture <i>R. Bartolini</i>	Space charge lecture <i>M. Migliorati</i>	Mini-workshop Accelerator Design <i>R. Bartolini</i>	Presentation of Accelerator Design  <i>Students</i>
15:00	Synchrotron Radiation lecture <i>R. Bartolini</i>	Synchrotron Radiation lecture <i>R. Bartolini</i>	Space charge lecture <i>M. Migliorati</i>	Mini-workshop Accelerator Design <i>R. Bartolini</i>	
16:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
16:15	Synchrotron Radiation lecture <i>R. Bartolini</i>	Synchrotron Radiation tutorial <i>R. Bartolini</i>	Laser Plasma Acceleration Seminar <i>R. Assmann</i>	Mini-workshop Accelerator Design <i>R. Bartolini</i>	
17:15	Future High-Energy Linear Colliders Seminar <i>L. Rinolfi</i>		AFTER WORK AT ESI		
18:15					

# plan

## 9 lectures

**part 1: synchrotron radiation ~ 5h**

**part 2: beam dynamics with synchrotron radiation ~ 4h**

## 3 tutorials

**based on the solutions of the exam sheets assigned in previous years**

**\*\*\* volunteers \*\*\* will be encouraged**

## 3+1h machine design

**the project consist in designing of an upgrade of a storage ring  
light from a second generation to a third generation light sources  
working groups of 5-6 people**

**1-2 \*\*\* volunteers \*\*\* will report on Friday afternoon**