

**Session Program**

**18-20 Apr 2013**

**Advanced Mechanics in Accelerator  
Technology (AMAT)**

***Advanced Mechanics in Accelerator  
Technology (AMAT)***

CERN

# Friday 19 April

09:00

## Advanced Mechanics in Accelerator Technology (AMAT)

**Session** | **Location:** CERN, 40/S2-A01 - Salle Anderson

09:00–09:15

**Welcome of participants by Prof. Rolf-Dieter Heuer, Director-General of CERN**

09:15–09:35

**20 years of cooperation between CERN and the Cracow University of Technology**

**Speaker**

Blazej Skoczen

09:35–09:55

**Intelligent systems for multidisciplinary design optimization problems**

**Speaker**

Tadeusz Burczynski

09:55–10:15

**Technology of superconducting magnets**

**Speaker**

Luca Bottura

10:15–10:35

**Selected research areas in mechnics of materials**

**Speaker**

Henryk Petryk

10:35–10:50

**Coffee break**

10:50–11:10

**Material studies and tests at CERN**

**Speaker**

Stefano Sgobba

11:10–11:30

**Constitutive modelling of materials for particle accelerators design**

**Speaker**

Blazej Skoczen

11:30–11:50

**Interaction of high energy particle beams with solids**

**Speaker**

Alessandro Bertarelli

11:50–12:10

**HiRadMat Facility at CERN**

**Speaker**

Ilias Efthymiopoulos

12:10–12:30

**From particle physics to medical applications**

**Speaker**

Manuela Cirilli

12:30