Introduction to the 2nd EuCARD2 ColMat HDED annual meeting

GSI, Dec. 4-5, 2014
Day 1 morning

- Adriana ROSSI
  - Introduction, scope and programme  
  - 10:00 - 10:15

- Federico CARRA
  - HiRadMat experiment: simulation, design and planning (20 +10 min discussion)  
  - 10:15 - 10:45

- Lorenzo PERONI
  - New methods for high strain rate and high temperature characterisation of collimator materials (20 + 10 min discussion)  
  - 10:45 - 11:15

- Oscar SACRISTAN DE FRUTOS
  - Thermo-physical and mechanical characterisation of collimator materials (20 + 10 min discussion)  
  - 11:15 - 11:45

- Elena QUARANTA
  - Updated failure scenarios and damage limit of TCTs and status of SixTrack simulations (20 + 10 min discussion)  
  - 11:45 - 12:15
### Day 1 afternoon

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<td>13:45 - 15:00</td>
<td>Visit to GSI</td>
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| 15:00 - 16:00 | **Marilena TOMUT**
|               | GSI tests status and preliminary results (45 + 15 min discussion)       |
| 16:00 - 16:30 | Coffee break                                                             |
| 16:30 - 17:00 | **Alexander RYAZANOV**
|               | NRC_KI tests status and results (20 + 10 min discussion)                |
| 17:00 - 17:30 | **Nikolaos SIMOS**
|               | BNL tests status and preliminary results (20 + 10 min discussion)       |
| 17:30 - 18:00 | **Adriana ROSSI**
|               | Wrap–up, discussion, and future plans (including planning of future meetings and deadlines) |
• Present and discuss different methods to calculate DPA
  – Is DPA a valid and comprehensive figure of merit for damage? If not what else?
  – Equivalent damage from different beams (ion, proton, energy, flux, fluency), will give similar values of DPA?
  – A DPA value has the same meaning for different materials?
  – How can we extrapolate to different conditions (LHC in particular)?
  – What values for LHC nominal case (7TeV – nominal losses)?

• Outcome of the meeting should be a consensus on how calculate DPA and a planning for future studies and extrapolations.
Day 2 morning

- **Adriana ROSSI**
  - Introduction: can we use DPA as figure of merit?  
    09:00 - 09:15

- **Nikolai MOKHOV**
  - Radiation damage at high energy: theoretical model and data (30 + 15 min discussion)  
    09:15 - 10:00

- **Anton LECHNER**
  - Estimation of DPA at CERN (15 + 10 min discussion)  
    10:00 - 10:25

- **Coffee break**  
  10:25 - 10:55

- **Marilena TOMUT**
  - Graphite radiation damage (20 +10 min discussion)  
    10:55 - 11:25

- **Alexander RYAZANOV**
  - DPA calculations at NRC KI (30 + 15 min discussion)  
    11:25 - 12:10

- **Warm-up discussion**  
  12:10 - 12:40

GSI– Dec ‘14
Day 2 afternoon

- Lunch 12:40 - 14:30

- Alessandro BERTARELLI
  - Preliminary summary on DPA and discussion 14:30 - 16:00

- Alessandro BERTARELLI
  - Wrap-up and future plans for DPA studies 16:00 - 17:00