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| european-xfel-logo-497x497 | Technical Meeting |
| Meeting Minutes |

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| Chair | Tobias Haas |  Date | 23 March 2012 |
| Location | AER19/2.26 |  Time | 9:00 |
| Attendees | Martin Dommach, Andrew Aquila, Tobias Haas, Harald Sinn, Chris Youngman, Nicola Coppola, Andreas Schwarz, Niko Saaristo, Christian Bressler |
| Distribution | Andrew Aquila, Christian Bressler, Nicola Coppola, Martin Dommach, Jan Grünert, Jens Buck, Tobias Haas, Sigrid Kozielski, Markus Kuster, Max Lederer, Anders Madsen, Adrian Mancuso, Jochen Metzen, Michael Meyer, Serguei Molodtsov, Joachim Pflüger Carola Schulz, Joachim Schulz, Andreas Schwarz, Harald Sinn, Thomas Tschentscher, Chris Youngman |

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| Item 1 | Old Action Items |

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| Topic  | DAQ and Control needs |
| Description | The DAQ and control needs should be extended to other instruments than SPB |
| Action | A list similar to the one made by C. Youngman and A. Mancuso for SPB will be made for FXE  |
| resuLt | It was decided that the results for SPB which are now at a 10% accuracy level will be used as a model for the hard X-ray beam lines. In parallel, a similar study will be made for the SQS instrument to get an understanding of the differences for the soft X-ray beam line. |
| status | Closed |
| Who | C. Bressler/C. Youngman | When | 30 March 2012 |

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| Topic  | Lab Access |
| Description | Labs should have doors to the outside to move in bulky pieces of equipment |
| Action | Include doors to the outside in the floor plan where possible |
| status | Open |
| Who | J. Metzen | When | 23 March |

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| Topic  | All labs |
| Description | Are all labs requested actually included in the floor plan |
| Action | Circulate floor plan and current state of lab list and check plan against list |
| status | Open |
| Who | C. Schulz/J. Metzen | When | 30 March |

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| Topic  | Cost of temperature stabilization |
| Description | What does it cost to stabilize a heat load of 180 kW to 0.1K precision? |
| Action | Discuss with MKK what technical solution and what cost is associated |
| status | Closed |
| result | It does not appear reasonable to be able to cool 180kW to 0.1K precision. It will be assumed that the maximum to be cooled by air is around 30kW. H. Sinn states that it cost ca. 60k€ for the air conditioning of the hutch in Petra where 10 kW are cooled to 0.5K precision. |
| Who | T. Haas |  | 23 March |

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| Topic  | Detector requirements |
| Description | The power requirements of the detectors are to be refined |
| Action | M. Kuster and C. Youngman to discuss the power requirements of the detectors |
| result | It has been established that 5.2 kW are used in all estimates for the detector heads per MPix. |
| status | Closed |
| Who | M. Kuster/C.Youngman |  | 23 March |

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| Topic  | Power in the SPB Optics Hutch |
| Description | The power requirements in the SPB optics hutch needs to be specified |
| Action | Write down power in the optics hutch |
| status | Open |
| Who | A. Aquila |  | 30 March |

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| Topic  | Interlock, infrastructure and safety |
| Description | The needs for interlocks, infrastructure and safety equipment needs to be added |
| Action | Collect the interlock, infrastructure and safety needs |
| Result | According to B. Rack the following is needed:* Reserve outside each interlock door (instruments and 5 tunnels): BxHxT: 2,0 x 1,0 x 0,3 m³; on the side of the door knob.
* At the tunnel entrances the interlock door needs to be watched by a camera. So a free line of sight must be available.
* There need to be cable trays running from the interlock/electronics room (UG1/0033) to the cable chicanes for each interlock area of the instruments
* One chicance per interlock area.
* Inside the interlock areas space is need for smaller components and cable channels to be agreed upon.

In addition at least one gas rack will be needed per instrument huch |
| status | Closed |
| Who | T. Haas |  | 23 March |

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| Topic  | Consistency of power numbers |
| Description | Need to check that the power numbers from A. Aquila and C. Youngman are consistent. |
| Action | Compare A. Aquila’s and C. Youngman’s power numbers |
| result | A meeting has been scheduled between A. Aquila and C. Youngman for 28 March to sort out this topic. |
| status | Open |
| Who | A. Aquila/C. Youngman |  | 30 March |

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| Topic  | Third beam line |
| Description | Should the third beamline/instrument per experimental area be maintained? |
| Action | A. Schwarz to ask the MB |
| result | The MB reemphasized that the placeholder for a third instrument should be respected in the planning and cannot be removed or significantly altered. These placeholders will provide the overall facility the possibility to later integrate additional instruments. If issues arise due to these placeholder these need to be escalated in order to find solutions. |
| status | Closed |
| Who | A. Schwarz |  | 23 March |

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| Topic  | Rack placement |
| Description | Where should the racks in SPB be placed to satisfy cable lengths requirements |
| Action | N. Saaristo to calculate the cable lengths from his model |
| result | A first calculation for SPB was done that indicates that the cable lengths can only be satisfied if the racks are placed on top of the experiments |
| status | Closed |
| Who | N. Saaristo |  | 23 March |

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| Item 2 | Experimental Hall Floor |

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| Presenter | T. Haas | Time |  |
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| Topic  | DAQ and Control needs |
| Description | The DAQ and control needs need to be estimated for all instruments |
| Action | SPB will be used as a model for the hard X-ray beam lines. SQS will be evaluated next in order to also get a reasonable estimate for the soft X-ray beam lines |
| status | Open |
| Who | M. Meyer/C. Youngman |  | 13 April |

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| Topic  | Rack Placement/Cable Lengths |
| Description | The racks should be placed such that the cable lengths requirements can be satisfied |
| Action | The planning will proceed under the assumption that the racks will be placed on top of the instrument hutches:* This is the only way the cable lengths requirements can be met.
* It also saves space on the floor.
* Interference with the cranes will be minimized by placing the racks between the pillars.
* A gallery walkway along the foreseen media route will be planned and put into the model
* Hatches in the hutches (ca. 3 x 5 m) will be included in the craneable area.
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| status | Open |
| Who | N. Saaristo/T. Haas |  | 13 April |

Next Meeting: 30 March 2012 |