# Magnetic shielding meeting: 2013-03-12: 15:00 GMT

## Venue at RAL to be advised (phone conference details circulated)

**Present:** JC, KM, CMacW, PS, MC, IT, JT, KL, VB, MG, CP, PH, HW

### 1. Actions:

* **KL:** Liaise with ISIS to set up joint meeting after Christmas.  
  Ongoing.
* **PS, KM, MC:** Provide first draft of questions and specification of advice required;  
  Done. VF will come to RAL tomorrow. The issue will be presented and initial discussion of consultancy.
* **PS, KM, MC, with KL:** Seek solution with VF to see what is feasible.  
  See above.
* **JW:** Advise on details of substations;  
  No report this week; action stands.
* **PS:** Common source of BH curve data;  
  Agreed that this would be implemented in the repository system that PS has set up for the comi files.

### . Magnetic model of MICE Hall: PS

* See slides:
* Points noted:
  + General reassurance that Hall model and reduced model give similar answers.

### 3. Magnetic model of tracker cryostat KM

* See slides:
* Points noted:
  + Cylindrical shields considered. Smaller cylinders must be thinner to have the same shielding effect. Large can will still be investigated;
  + Discussion of possible cylinder topologies discussed, for example, concentric cylinders; lengthening the shield; etc.

### 4. Magnetic model of racks and R9 MG

* Steps underway to understand VB’s model of R9. Model was built to study safe operation of the FC. MG is now looking at building a model of the compressor. Rack model and R9 model not yet updated. Plans now to have three models which will be assembled at run time. Hoping for results next week.

### 5. Partial return yokes: magnetic analysis and design HW

* No report this week.

### 6. Progress on magnetic measurements and validation of model IT

* No more measurements. CP has made some plotting updates. These will be presented next week.

### 7. Schedule and plans, discussion CMacW

* No report this week.

### 8. DONM:

19Mar13; 15:00 GMT

Propose MICE/ISIS magnetic field meeting – to be defined

### 9. AoB

* Post meetings on Sheffield WWW site. KL to tar and PS to post.
* KL: floated idea of technical publication (not imminently) on the modelling and mitigation.

## Summary of actions:

* **KL:** Liaise with ISIS to set up joint meeting after Christmas.
* **PS, KM, MC, with KL:** Seek solution with VF to see what is feasible.
* **JW:** Advise on details of substations;
* **PS:** Common source of BH curve data;
* **KL:** tar meetings and send to PS;
* **PS:** Post meetings on Sheffield WWW site.