

Q1

- ◆ Has anything struck the audience as being a solved problem ?
 - transient stability ?

Q2

◆ Has anything struck the audience as an unexpected result ?

- ◆ long time scale, sustained index heating and loss
- ◆ path from material database to “as built” properties not completely understood
 - conduction in components (interface resistances ?)
 - strand to cable to coil characterization (Nb₃Sn/NbTi)
- ◆ HTS engineering database
- ◆ what is the meaning of “n” in strand/cables/magnets
 - definition, dependences on (B, T, E, ...)
- ◆ slow heat removal in parallel channels – is this a problem ?

Q3a

- ◆ In what area is modeling lagging behind the experiments ?
 - integrated models for
 - ◆ EM/TH + Mechanical
 - ◆ cable/conductor
 - mechanical models of cables
 - coil manufacturing process
 - ◆ e.g. impregnation (thermal model)
 - exploit better/more existing models, explore different regimes
 - ◆ heat transfer with parallel channels
 - ◆ dependence of stability on flow velocity

Q3b

- ◆ Which *useful* models need validation ?
 - mechanical behaviour of cables and strands in cables
 - Electro-dynamic characterization of cable

Q4

- ◆ Suggestions/reactions/comments to the total modeling idea ?
 - ◆ mechanical/thermal/hydraulic/electric/magnetic
 - ◆ work is already in this direction
 - ◆ time scale ???

Q5

- ◆ Is there an adequate engineering database for HTS materials ?

Q6

- ◆ In what direction should CHATS move ?
 - expand scope
 - integrated modelling