

Availability studies for SB2009

- Focus: relative availability performance of proposed single tunnel schemes (with respect to RDR)
 - Klystron Cluster
 - Distributed RF
- Goal: evaluate and explain differences we might expect with these 2 schemes
 - Identify important parameters
 - (Which may become RD topics)
 - For example: klystron exchange logistics, access limitations

Specifics:

- 1) Run availsim using SB2009 KlyCluster and DRFS proposal parameters
 - Sub-Group 1 (?)
- 2) Identify and Critique performance drivers
 - To be done with Chris and Shigeki
- 3) Evaluate linac subsystem availability for each proposal (and RDR) using spreadsheet-based technique
 - Non-monte carlo
 - Request: KEK team to lead

2) Evaluation and Critique -

- analysis of initial results
- Availability 'performance' drivers
 - MTBF / MTTR parameters
 - Access / logistical strategies and assumptions
 - Travel times; limitations on repair manpower
 - Recovery time

2) Evaluation and Critique -

- Key question – are these ‘performance’ drivers consistent with observation?
 - How can we rationalize underlying issues and approach the problem
- Key question – for scheme X - what defines the availability-related response effort?
 - R & D?
 - Management (Operations and Maintenance) Models?
- To be led by John