

FINAL SESSION COMMENTS

Mike Poole

AIMS

1000 mA (multibunch)

100 mA (single bunch)

4 mm (gap)

PERFECT STABILISATION

ACCEPTABLE LIFETIME

PRACTICAL ENGINEERING

PREDICTABILITY

ISSUES

INTELLECTUAL  **PRAGMATIC**

IMPEDANCE

Codes

Bench Mark

Measurements (!)

A priori confidence ?

BEAM

Harmonic cavities

Fill patterns

Small gap/RW

High frequency effects (CSR?!)

Multiple instability interaction ?

TECHNIQUES

Diagnostics (high frequency ?)

Feedback (future ?)

FUTURE STEPS

Shared codes

FEL stabilisation effect (?!)

(Adjustable) impedance experiment

New cavities

New chamber materials



COLLABORATION

OPEN QUESTIONS (SINGLE BUNCH ISSUES)

A Mosnier

1. TMCI or RW

Some rings don't see it - explanation ?

2. TMCI = threshold a factor 20 below operating current for example

inductive component suppression could help ?

(to slow down detuning)

3. Numerous simulation codes

Cross checking ? between labs

with the same data input

4. Readdress the taper calculation

Especially in 3D. What is the amplification factor ?

5. Impact of small gap : never really studied.

e.g. SPring 8 ? - never closed because of interlock problems

APS ?