

International Cavity “Database”

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Motivation

- Everyone uses the same data to make plots – a common denominator in yield calculations
- If you show a plot, you specify “I made xxx cuts on the data” and anyone could reproduce it (they might also argue with your cuts)

Proposed Rules

- All RF tests are included; may be flagged for exclusion
- Uniform criteria for data entry: only allowed values for as many as possible items
- Define everything which might vary or have underlying subtleties, e.g., "LABX#1" might be a final surface treatment referenced as a well-defined recipe anyone can look up.
 - If something changes significantly, treatment specification becomes LABX#2, also referenced, etc.
- No private/sensitive vendor data
- Anything referred to in a comment field must be for information only, and not data selection purposes
- Minimize effort required for compliance
- Please provide regular updates at predetermined (by Akira) times

“Database” Tool

- Propose an Excel file, not a real database (resources...)
 - Fermilab can provide a publicly available web interface and (if desired) a electronic-logbook-type tool, details TBD
 - see, e.g., Americas cavity listing:
http://tdserver1.fnal.gov/project/ILC/S0/web/Cavity_Listing.asp
 - ILC-S0 spreadsheet needs rather more info than this example
- Sections
 - Cavity-specific: process type, cavity type, etc.
 - RF-test-specific: gradient, Q0 at max gradient, test limitation, etc.
 - Database-specific: include RF test or not and if not, why not?
- Starting point: Sebastian Aderhold’s optical inspection spreadsheet

First pass spreadsheet

- Starting point: Sebastian Aderhold's optical inspection spreadsheet
- http://tdserver1.fnal.gov/project/ILC/S0/ILC_CavityTests_20090526.xls
- Please email me your specific comments
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