

RHIC BPM Shutdown Status

- Of 18 opens:
 - 9 broken solder joints found and corrected
 - 4 bad feed-throughs replaced
 - 3 tested good at ambient
 - yo1-bh16, bo7-bh20, yo8-bh1
 - 2 remaining to be checked
 - bi1-bh17, bo3-bh16

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- Of 50 planes indicating reversals:
 - **24** cable reversals found outside cryostat or at the IFE and were corrected
 - **5** reversals found in the cryostat and corrected
 - **5** checked ok
 - yo4-bv11, bi5-bh3.1, yo5-bh3.1, bo6-bh3.1, bi8-bh3
 - **1** plane inaccessible due to shielding (y-g7-bhx)
 - **15** remaining to be checked

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- Board modifications
 - Modules in 9 of 12 alcoves removed from ring, 7 of which have been disassembled
 - Service buildings not yet removed
 - Approx. 200 of total 750 boards have been modified
 - 800 analog mux daughter cards received and tested
 - 800 splitter boards received and tested
 - Approx. 35 boards tested and ready for installation

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- Board modification goal
 - **To modify every board!**
 - An optimistic goal, but should be achievable with proper manpower
 - Backup plan is to modify set of modules and swap entire location on maintenance days

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- DSP/Gate array code
 - Issues exist – not yet resolved
 - Biggest issues appear to be related to internal pulse and calibration code
- As workaround, using external beam simulated pulse to calibrate and test

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- Other
 - Alarming
 - Auto-timing
 - Million turn