

Hybrid 4t

Hybrid ID: 4t

Test results

http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t

Test 1

Hybrid 4t, test 1

Parameter	Value
ICAL	
ISHA	
VFP	
VFS	
Temperature	

Test data: http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/1/data
Test results (images and numerical values): http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/1/plots

Baseline run

Pedestal and noise (black markers are for all samples together, colored markers are individual samples)

Sample-to-sample shift

Noise correlations

Physical channel ordering:

PDF:

- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/1/plots/hybrid4t_pos_corr.pdf
- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/1/plots/hybrid4t_neg_corr.pdf

Readout channel ordering:

PDF:

- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/1/plots/hybrid4t_mux_pos_corr.pdf
- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/1/plots/hybrid4t_mux_neg_corr.pdf

Timing calibration runs, aggregate shaping curve fits

Fit parameters (colors identify calibration groups)

Timing calibration runs, hit-by-hit fits

Linearity of fitted T0 (ideal CR-RC fit on left, spline fit on right)

Goodness of fit (ideal CR-RC fit on left, spline fit on right)

Time resolution at each calibration delay (ideal CR-RC fit - stars mark error reported by fitter, dots mark spread in distribution of fitted values)

Test 2

Hybrid 4t, test 2

Parameter	Value
ICAL	
ISHA	
VFP	
VFS	
Temperature	

Test data: http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/2/data

Test results (images and numerical values): http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/2/plots

Baseline run

Pedestal and noise (black markers are for all samples together, colored markers are individual samples)

Sample-to-sample shift

Noise correlations

Physical channel ordering:

PDF:

- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/2/plots/hybrid4t_pos_corr.pdf
- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/2/plots/hybrid4t_neg_corr.pdf

Readout channel ordering:

PDF:

- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/2/plots/hybrid4t_mux_pos_corr.pdf
- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/2/plots/hybrid4t_mux_neg_corr.pdf

Timing calibration runs, aggregate shaping curve fits

Fit parameters (colors identify calibration groups)

Timing calibration runs, hit-by-hit fits

Linearity of fitted T0 (ideal CR-RC fit on left, spline fit on right)

Goodness of fit (ideal CR-RC fit on left, spline fit on right)

Time resolution at each calibration delay (ideal CR-RC fit - stars mark error reported by fitter, dots mark spread in distribution of fitted values)

Test 3

Hybrid 4t, test 3

Parameter	Value
ICAL	
ISHA	
VFP	
VFS	
Temperature	

Test data: http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/3/data

Test results (images and numerical values): http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/3/plots

Baseline run

Pedestal and noise (black markers are for all samples together, colored markers are individual samples)

Sample-to-sample shift

Noise correlations

Physical channel ordering:

PDF:

- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/3/plots/hybrid4t_pos_corr.pdf
- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/3/plots/hybrid4t_neg_corr.pdf

Readout channel ordering:

PDF:

- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/3/plots/hybrid4t_mux_pos_corr.pdf
- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/3/plots/hybrid4t_mux_neg_corr.pdf

Timing calibration runs, aggregate shaping curve fits

Fit parameters (colors identify calibration groups)

Timing calibration runs, hit-by-hit fits

Linearity of fitted T0 (ideal CR-RC fit on left, spline fit on right)

Goodness of fit (ideal CR-RC fit on left, spline fit on right)

Time resolution at each calibration delay (ideal CR-RC fit - stars mark error reported by fitter, dots mark spread in distribution of fitted values)

Time resolution at each calibration delay (spline fit - dots mark spread in distribution of fitted values, ignore stars as this fitter does not report fit errors)

Test 4

Hybrid 4t, test 4

Parameter	Value
ICAL	
ISHA	
VFP	
VFS	
Temperature	

Test data: http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/4/data

Test results (images and numerical values): http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/4/plots

Baseline run

Pedestal and noise (black markers are for all samples together, colored markers are individual samples)

Sample-to-sample shift

Noise correlations

Physical channel ordering:

PDF:

- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/4/plots/hybrid4t_pos_corr.pdf
- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/4/plots/hybrid4t_neg_corr.pdf

Readout channel ordering:

PDF:

- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/4/plots/hybrid4t_mux_pos_corr.pdf
- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/4/plots/hybrid4t_mux_neg_corr.pdf

Timing calibration runs, aggregate shaping curve fits

Fit parameters (colors identify calibration groups)

Timing calibration runs, hit-by-hit fits

Linearity of fitted T0 (ideal CR-RC fit on left, spline fit on right)

Goodness of fit (ideal CR-RC fit on left, spline fit on right)

Time resolution at each calibration delay (ideal CR-RC fit - stars mark error reported by fitter, dots mark spread in distribution of fitted values)

Test 5

Hybrid 4t, test 5

Parameter	Value
ICAL	
ISHA	
VFP	
VFS	
Temperature	

Test data: http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/5/data

Test results (images and numerical values): http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/5/plots

Baseline run

Pedestal and noise (black markers are for all samples together, colored markers are individual samples)

Sample-to-sample shift

Noise correlations

Physical channel ordering:

PDF:

- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/5/plots/hybrid4t_pos_corr.pdf
- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/5/plots/hybrid4t_neg_corr.pdf

Readout channel ordering:

PDF:

- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/5/plots/hybrid4t_mux_pos_corr.pdf
- http://slac.stanford.edu/~meeg/SVT_production/hybrid/4t/5/plots/hybrid4t_mux_neg_corr.pdf

Timing calibration runs, aggregate shaping curve fits

Fit parameters (colors identify calibration groups)

Timing calibration runs, hit-by-hit fits

Linearity of fitted T0 (ideal CR-RC fit on left, spline fit on right)

Goodness of fit (ideal CR-RC fit on left, spline fit on right)

Time resolution at each calibration delay (ideal CR-RC fit - stars mark error reported by fitter, dots mark spread in distribution of fitted values)

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Add test page, short test ↕