

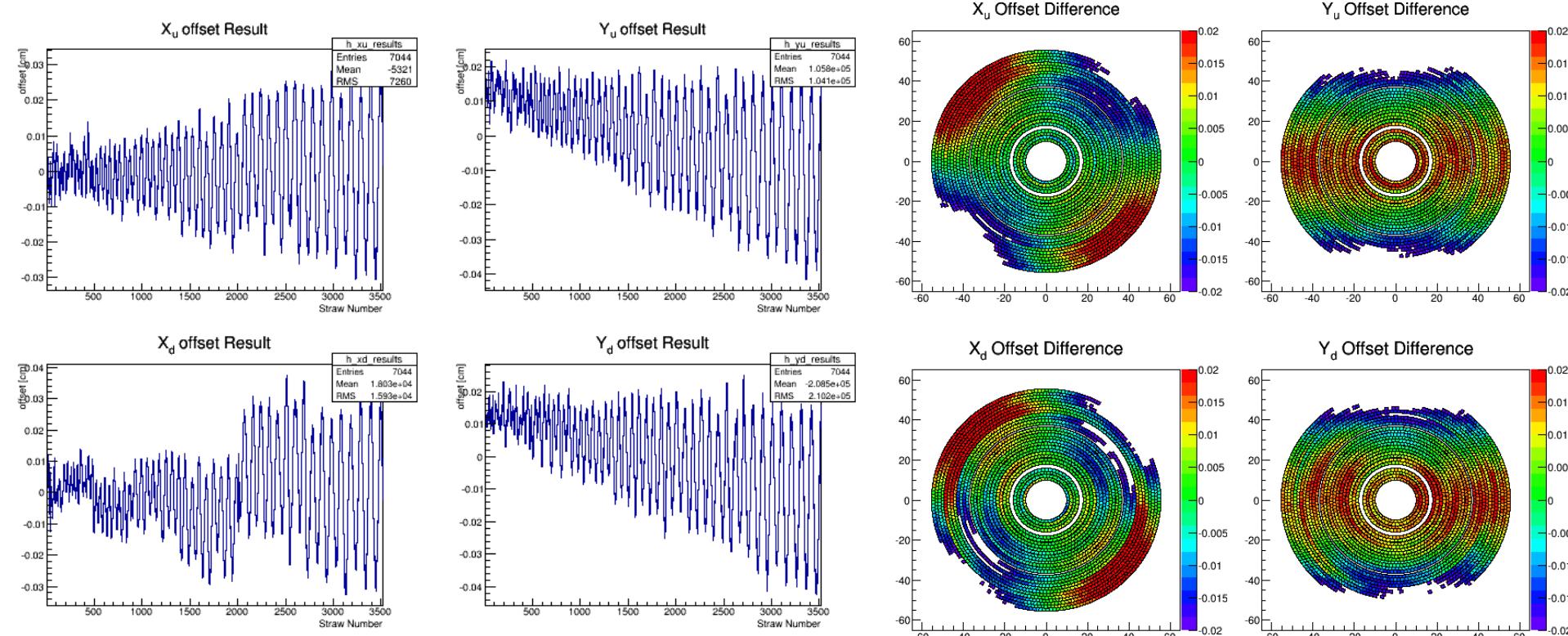
Millepede Update

Michael Staib

Effect of Regularization Factor

- Regularization of the matrix is handled by defining a “pre-sigma”. The matrix is regularized by adding a diagonal element of (pre-sigma)⁻².
- Modeled offsets are a random gaussian with a width of 150 μm .
- Plotted are the difference between the result of millipede and this input distribution.

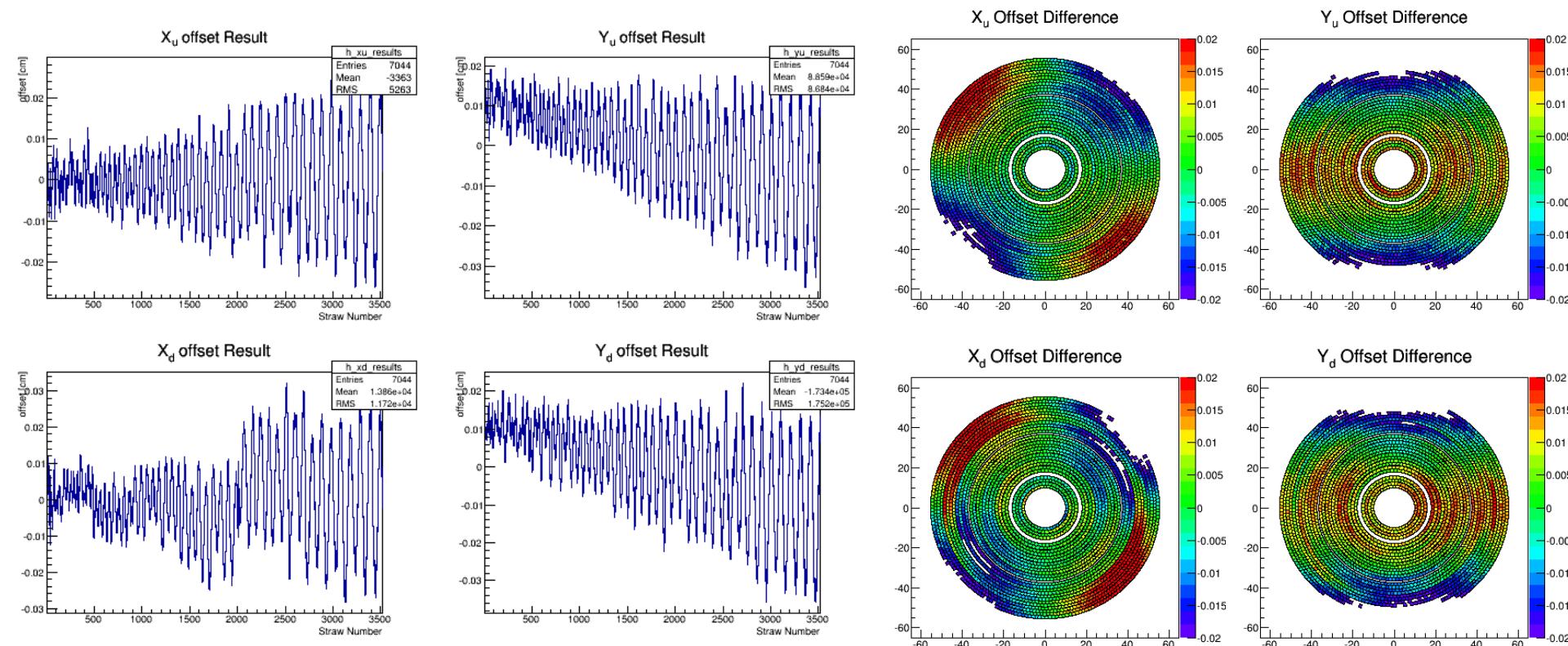
60 μm pre-sigma



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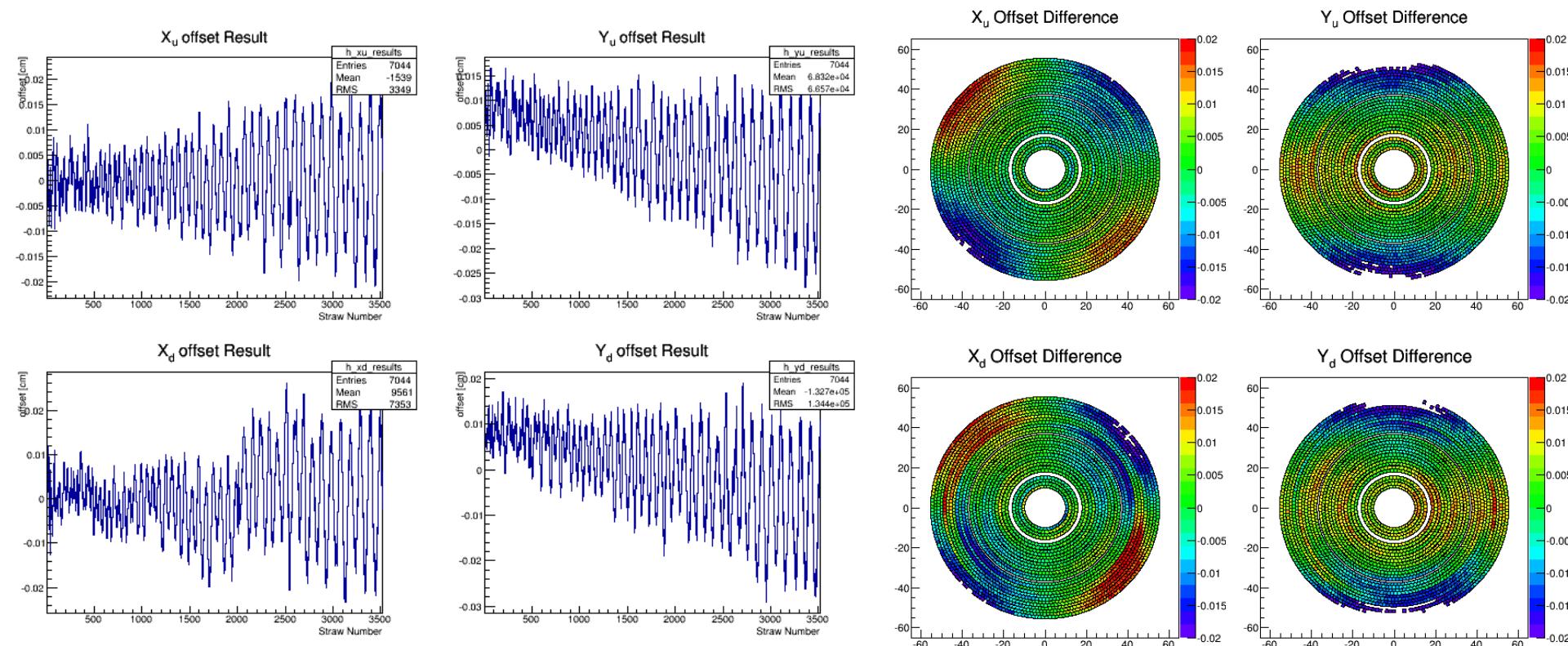
50 μm pre-sigma



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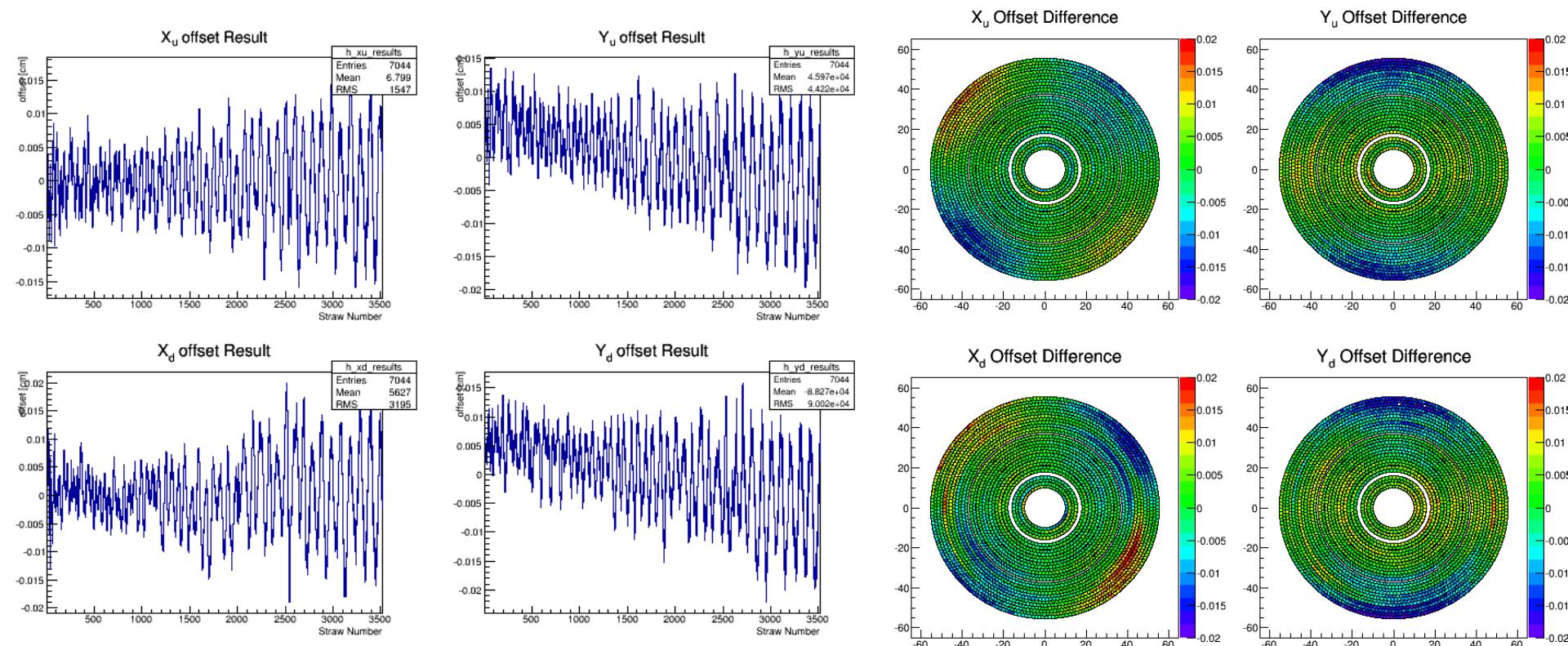
40 μm pre-sigma



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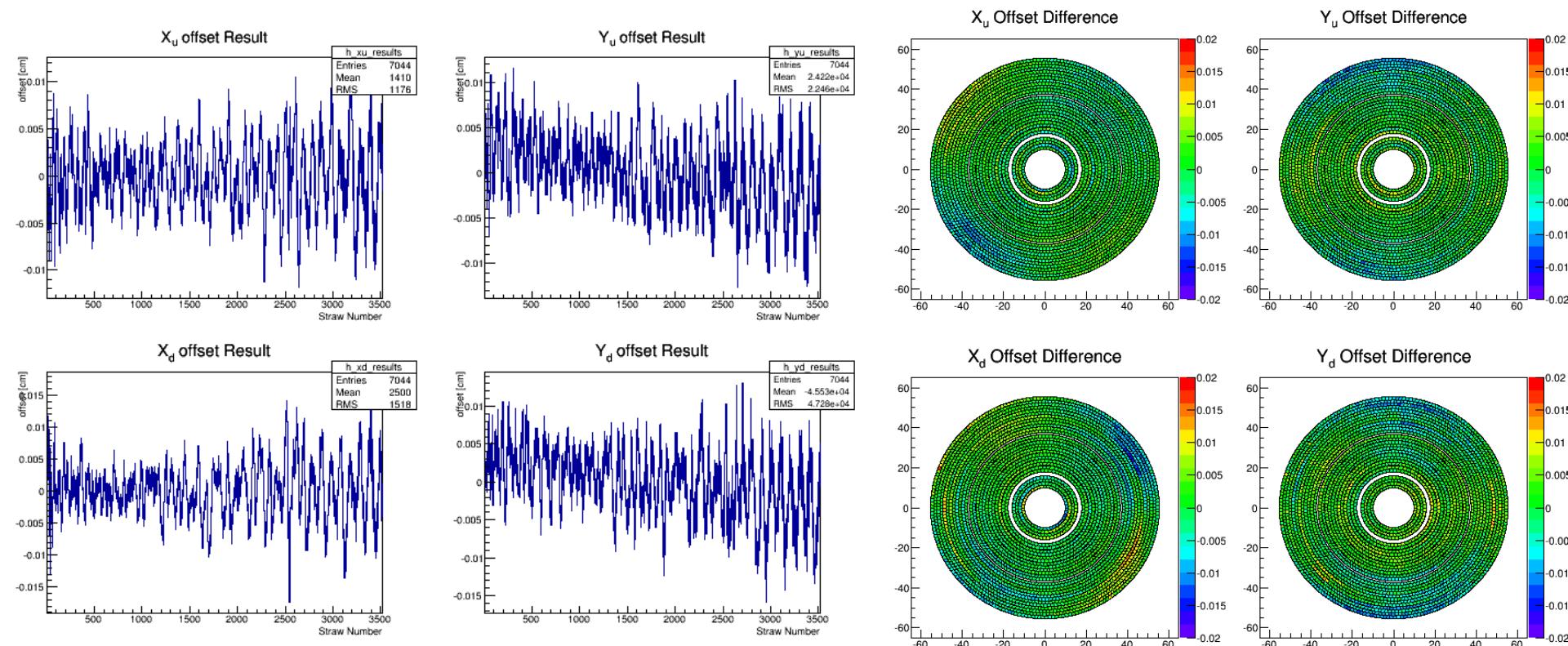
30 μm pre-sigma



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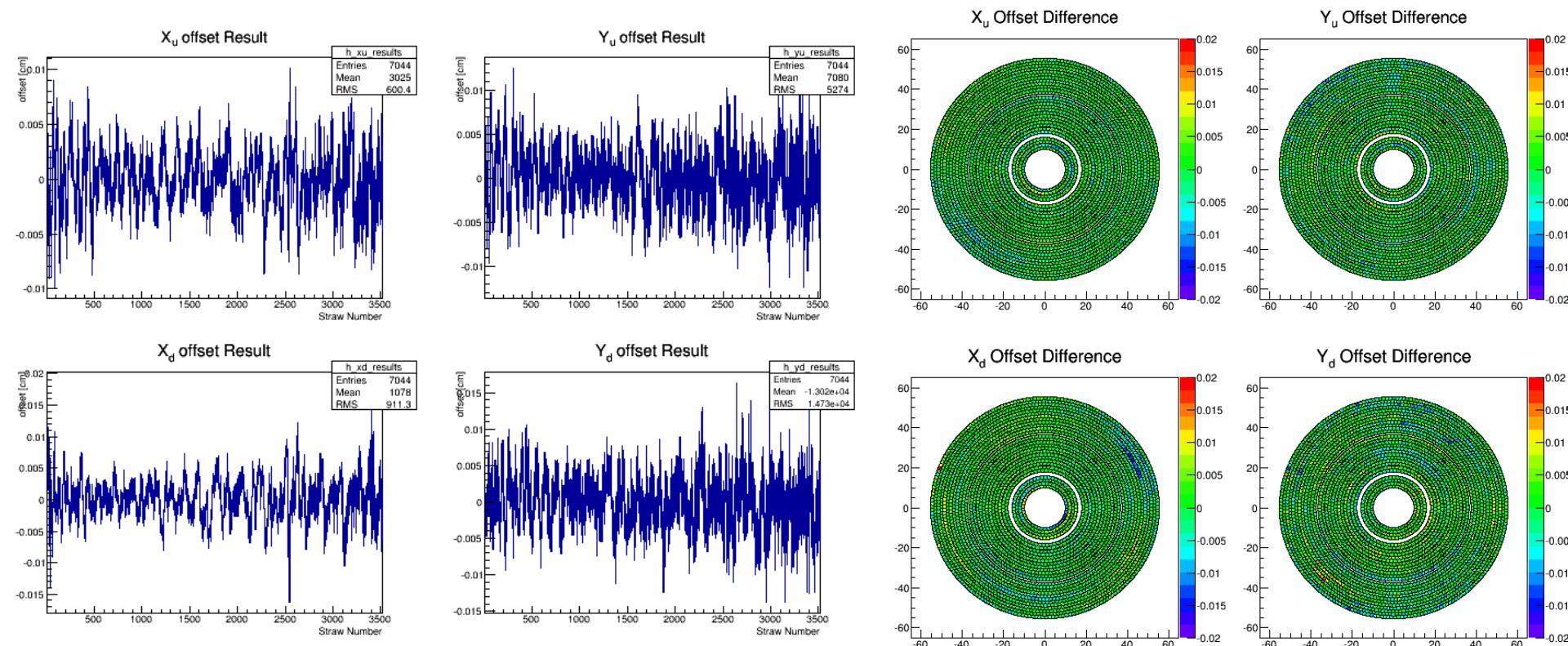
20 μm pre-sigma



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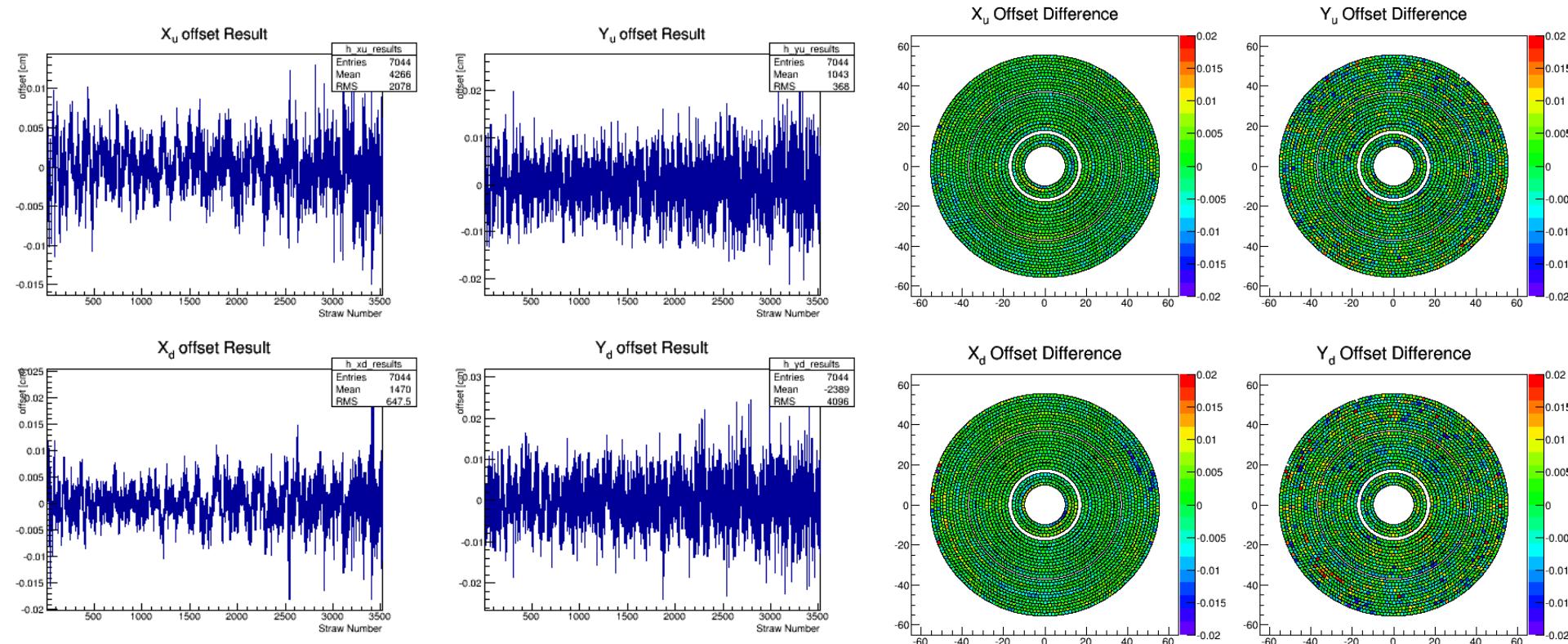
10 μm pre-sigma



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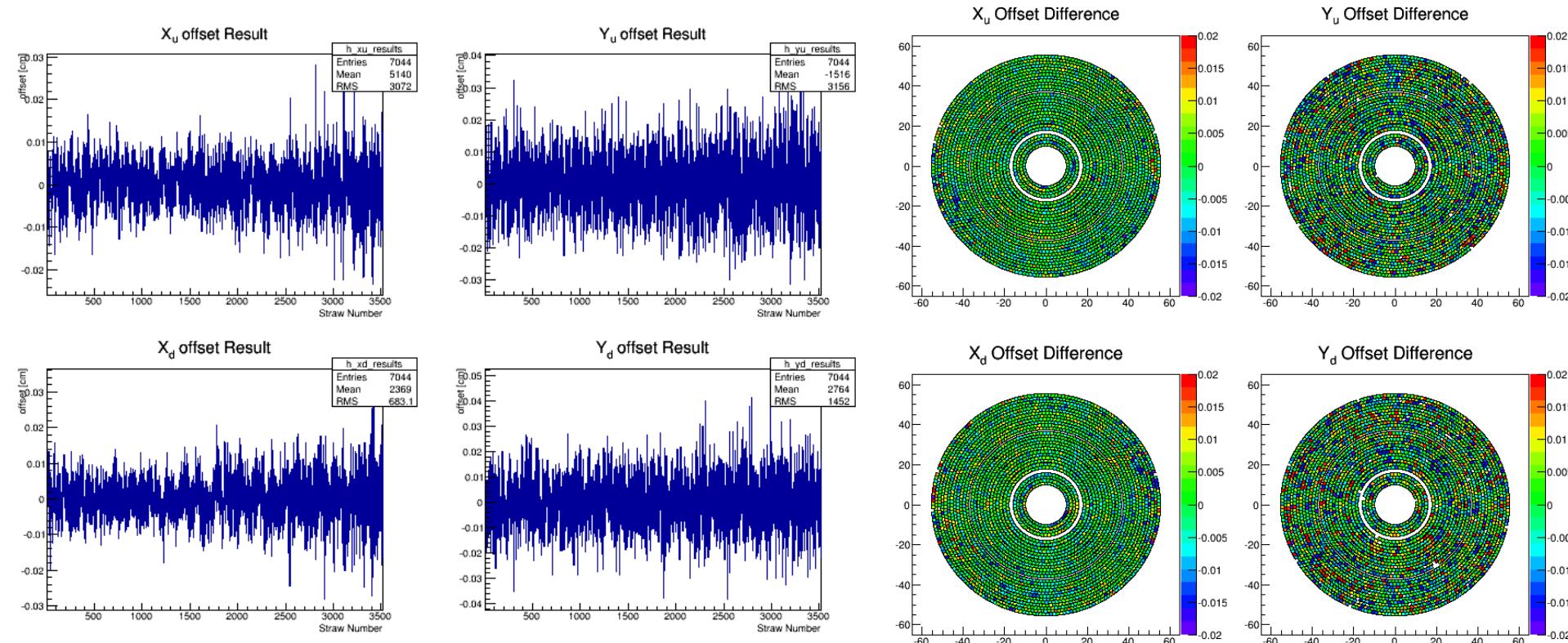
5 μm pre-sigma



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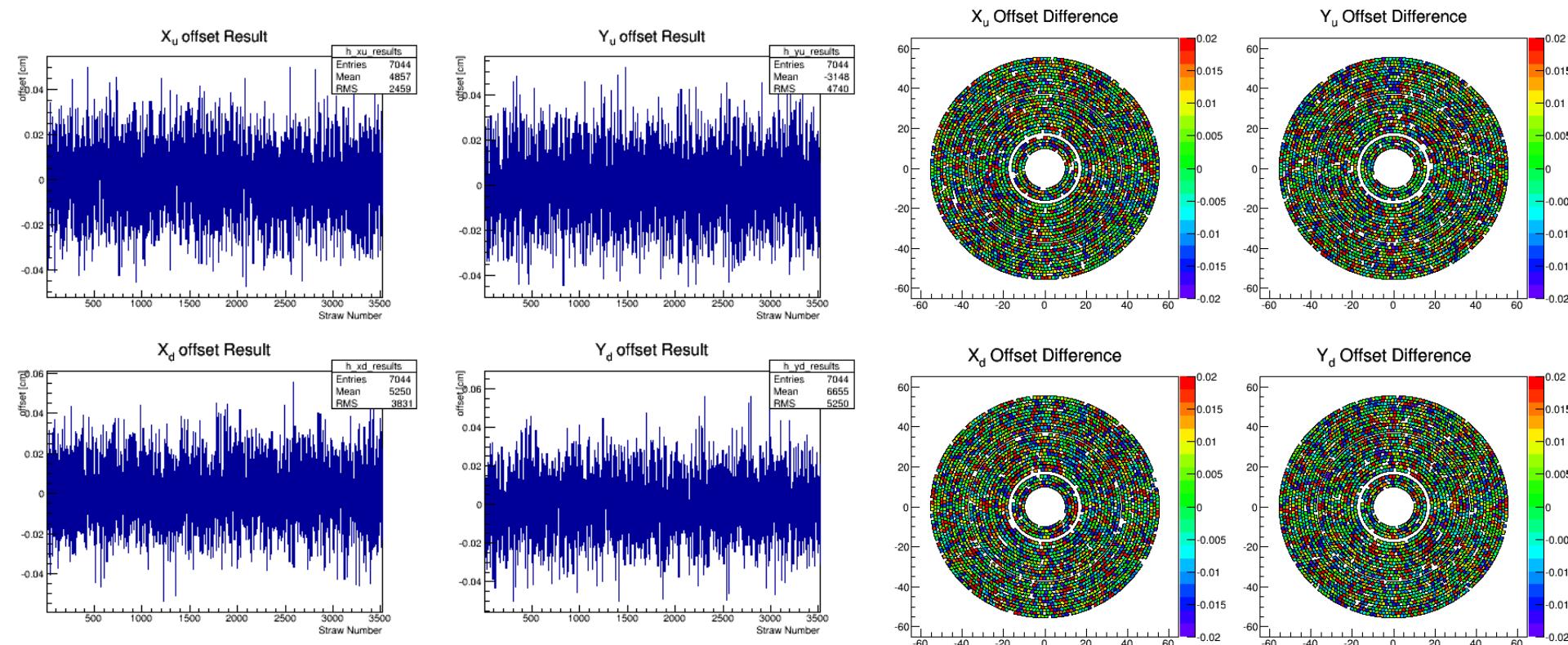
2.5 μm pre-sigma



Effect of Regularization Factor

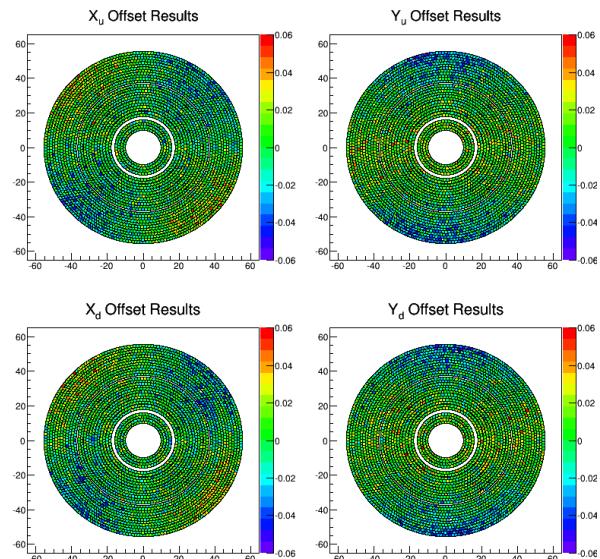
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1 μm pre-sigma

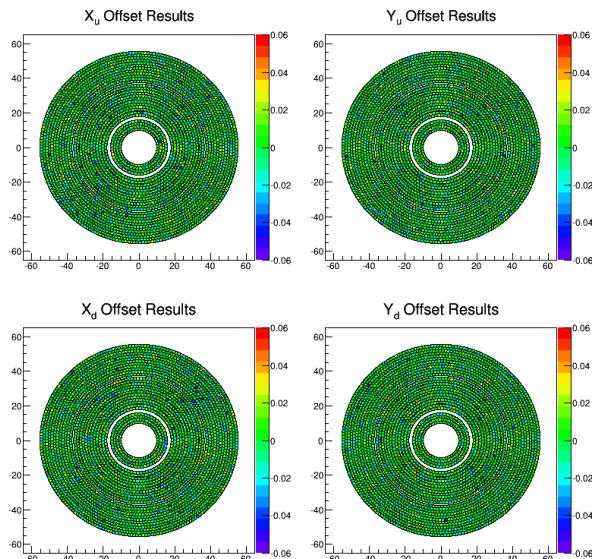


Raw Results

50 μm pre-sigma



10 μm pre-sigma



1 μm pre-sigma

