Search for Non-Gaussianity: Dealing with Photo-Quasar Systematics

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Anthony Pullen: Caltech
Photo-Calib Errors
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- Shift in color locus can affect number counts in matter tracers
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- Test shift of stellar locus median with pixel in color space $(u - g, g - r, r - i, i - z)$

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SDSS Quasar Sample

QSO overdensity

$\Delta_{\text{med}}$(stellar locus)

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Cross Correlation Test
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$\left| \frac{(l+1)C_{l}\nu}{2\pi} \right|$
Cross Correlation Test

\begin{itemize}
\item \text{without photo template}
\item \text{with photo template}
\end{itemize}
Cross Correlation Test

Removes apparent large-scale correlations