






AP Pipeline Configuration

This page provides a place for the AP team to keep track of past and future configuration investigations.

package	Output location	configuration parameter	tickets	discussion	investigation complete?
ip_diffim		doScaleTemplate Variance = True	<div> DM-20558 - Jira project does not exist or you don't have permission to view it.</div>		<p>No. Need to determine if should be set to True by default</p> <p>Nov. 2020: old backlog ticket to investigate scaling down the variance in some cases needs attention.</p> <div><div> DM-22396 - Jira project doesn't exist or you don't have permission to view it.</div><p>Will place</p></div>

meas_algorithms	/project /sullivan /saha/	<p>Use psfex as the PSF determiner (now the default)</p> <pre>import lsst.meas.extensions.psfex.psfexPsfDeterminer config.charlImage.measurePsf.psfDeterminer["psfex"].spatialOrder=2 config.charlImage.measurePsf.psfDeterminer["psfex"].psfexBasis="PIXEL_AUTO" config.charlImage.measurePsf.psfDeterminer["psfex"].samplingSize=0.5 config.charlImage.measurePsf.psfDeterminer="psfex"</pre>	 <p>DM-25694</p> <p>-</p> <p>Jira project does not exist or you don't have permission to view it.</p>	<p>Ian Sullivan increasing reduced chisq for PSF candidates to allow crowded field processing (from 3 to 20—enough to have about 100 candidates)</p>	Yes. Superseded by change to PSFEx.
pipe_tasks		<pre>calibrate.photoCal.match.referenceSelection.magLimit.fluxField="i_flux" calibrate.photoCal.match.referenceSelection.magLimit.maximum=22.0</pre>	 <p>DM-18687</p> <p>-</p> <p>Jira project does not exist or you don't have permission to view it.</p>	<p>Meredith Rawls uses this for obs_decam reruns since mid-2019 because sensible defaults are set only in obs_subaru. Also see this Community post.</p>	Yes, but defaults still unset for obs_decam. Meredith to ticket.

		<code>calibrate. astrometry. doMagnitudeOutlierRejection</code>	<div> DM- 30943 - Jira project does n't exist or you don't have permission to view it.</div>	<p>Lauren MacArthur added this during DC2 processing, but value depends on whether refcats have a reasonable range, whether there are refcat vs. science color differences</p>	<p>Current consensus (July 12, 21) is that this is too dataset-dependent to set a single default.</p>
<code>ip_diffim</code>		<code>self.makeKernel.kernel.active.spatialBgOrder = 2</code>		<p>Shiu Liu (DESC DIA)'s analysis (10/4/2022) suggests ~50% reduction in artifacts going to a spatial order of 4</p>	