All variables defined	Found	Used Where?
in `cry_ini.py`	in `Mtd.pr ef`?	
RawDir	True	<pre>def focus_all() sampleSumLists = cry_utils.get_sample_list(EXPR_FILE.basefile, samplelistTexte, EXPR_FILE.RawDir)</pre>
VanDir	True	-
VEmptyDir	True	-
SEmptyDir	True	
CorrVanDir	True	<pre>def load_sac_eff(EXPR_FILE, NoSAC=False, Eff=True):    newCalFile = EXPR_FILE.CorrVanDir + '/' +    EXPR_FILE.GrpFile</pre>
GrpDir	True	-
VanFile	False	<pre>def load_sac_eff(EXPR_FILE, NoSAC=False, Eff=True):   (dum, uampstotal) =   cry_sample.get_data_sum(EXPR_FILE.VanFile, "Vanadium",   EXPR_FILE)  def create_vana(EXPR_FILE, NoAbs=False):   (dum, uampstotal) =   cry_sample.get_data_sum(EXPR_FILE.VanFile, "Vanadium",   EXPR_FILE)</pre>
VEmptyFile	False	<pre>def create_vana(EXPR_FILE, NoAbs=False):   (dum, uampstotal) =   cry_sample.get_data_sum(EXPR_FILE.VEmptyFile, "Empty",   EXPR_FILE)</pre>
SEmptyFile	False	<pre>if EXPR_FILE.SEmptyFile[0] != "none":     Minus(LHSWorkspace="sample", RHSWorkspace="Sempty", OutputWorkspace="sample")     mtd.remove("Sempty")</pre>
AutoVan	False	_
CorrVanFile	True	<pre>def focus_all()  vanfil = EXPR_FILE.CorrVanFile + "-" + str(spec) + ".nxs"  def create_vana(EXPR_FILE, NoAbs=False): SaveNexusProcessed(Filename=EXPR_FILE.CorrVanFile + "_unstripped.nxs", InputWorkspace="Vanadium") SaveFocusedXYE(Filename=EXPR_FILE.CorrVanFile + "_unstripped.dat", InputWorkspace="Vanadium", SplitFiles=True)  def save_vana(EXPR_FILE): vanfil = EXPR_FILE.CorrVanFile + "-" + str(spec) + ".nxs"</pre>
		<pre>def remove_bins(EXPR_FILE): SaveFocusedXYE(Filename=EXPR_FILE.CorrVanFile + "-" + str(spec) + "dat", InputWorkspace="Vanadium-" + str(i),</pre>

```
def van_strip(EXPR FILE):
                                                                                                                      SaveFocusedXYE(Filename=EXPR_FILE.CorrVanFile + "-" + str(spec) + "_.dat", InputWorkspace="Vanadium-" +
                                                                                                                      def van_spline(EXPR_FILE):
                                                                                                                      SaveFocusedXYE(Filename=EXPR_FILE.CorrVanFile + "-" +
str(spec) + "_.dat", InputWorkspace="Vanadium-" +
                                                                                                                        def van spline only(EXPR FILE):
                                                                                                                     SaveFocusedXYE(Filename=EXPR_FILE.CorrVanFile + "-" + str(spec) + "_.dat", InputWorkspace="Vanadium-" + str(i), SplitFiles=False)
SacEffFile
                                                                                                                     def focus all(...)
ExistV
                                                                                     False
                                                                                                                       def create vana(EXPR FILE, NoAbs=False):
                                                                                                                       def focus_one(...)
VGrpfocus
                                                                                     False
                                                                                                                           ef create_vana(EXPR_FILE, NoAbs=False):
Path2DatGrpFile
                                                                                     False
                                                                                                                        def focus_one(...)
                                                                                                                      EXPR FILE.Path2DatGrpFile = newCalFile
                                                                                                                          utputWorkspace="sample",
croupingFileName=EXPR_FILE.Path2DatGrpFile,
                                                                                                                        def create_vana(EXPR_FILE, NoAbs=False):
                                                                                                                       if EXPR FILE.VGrpfocus == "sam":
VHeight
                                                                                     True
                                                                                                                        cry_utils.correct_abs(Inp
                                                                                                                                                                                                                                       c="Vanadium_corr",
VRadius
                                                                                      True
                                                                                                                             try the correct of the part of the correct of the c
VAttenuationXSection
                                                                                     True
VScatteringXSection
                                                                                     True
VanaNumberDensity
                                                                                     True
VNumberOfSlices
                                                                                     True
VNumberOfAnnuli
                                                                                     True
                                                                                    True
VNumberOfWavelengt
```

hPoints		<pre>TheNumberOfAnnuli=EXPR_FILE.VNumberOfAnnuli, \</pre>
VExpMethod	True	<pre>TheNumberOfWavelengthPoints=EXPR_FILE.VNumberOfWaveleng thPoints, \TheExpMethod=EXPR_FILE.VExpMethod)</pre>
VanSmooth	True	<pre>def remove_bins(EXPR_FILE): OutputWorkspace="Vanadium-" + str(i),</pre>
VanSplineCoef	True -> Differs	<pre>def van_spline(EXPR_FILE):     SplineBackground(InputWorkspace="Vanadium-" + str(i),</pre>
		<pre>SplineBackground(InputWorkspace="Vanadium-" + str(i), OutputWorkspace="Vanadium-" + str(i), WorkspaceIndex=0,</pre>
VanPeakRemove	True -> Differs	<pre>def strip_the_vana(EXPR_FILE, LoadUnstrip=""):     if EXPR_FILE.VanPeakRemove == "interpol":         print " =&gt; Van Bragg-peak stripping"         print "Smmoth Vana data with " +  EXPR_FILE.VanSmooth + " points"         remove_bins(EXPR_FILE)  elif EXPR_FILE.VanPeakRemove == "strip":         print " =&gt; Van Bragg-peak stripping"         van_strip(EXPR_FILE)  elif EXPR_FILE.VanPeakRemove == "spline":         van_spline(EXPR_FILE)  elif EXPR_FILE.VanPeakRemove == "splineonly":         van_spline_only(EXPR_FILE)  else:         return  save_vana(EXPR_FILE)</pre>
VanPeakFile	True	_
VanPeakList	False	<pre>def remove_bins(EXPR_FILE):     for peak in EXPR_FILE.VanPeakList[spec]:         RemoveBins(InputWorkspace="Vanadium-" + str(i),         OutputWorkspace="Vanadium-" + str(i), XMin=peak[0],</pre>
VanPeakWdt	False	<pre>def van_strip(EXPR_FILE):</pre>
VanPeakTol	False	<pre>if EXPR_FILE.VanPeakWdt[spec] != 0: EXPR_FILE.VanPeakWdt[spec]) + " Tol=" + str(EXPR_FILE.VanPeakTol[spec])  StripPeaks(InputWorkspace="Vanadium-" + str(i), OutputWorkspace="Vanadium-" + str(i),</pre>
CorrectSampleAbs	True	<pre>def focus_one()</pre>

```
if EXPR FILE.CorrectSampleAbs == "yes":
SampleAbsCorrected
                         False
                                        if EXPR FILE.SampleAbsCorrected == False:
SampleHeight
                          True
SampleRadius
                          True
SampleAttenuationXSe
                         True
SampleScatteringXSec
                          True
SampleNumberDensity
                          True
SampleNumberOfSlice
                          True
                                      neSampleNumberDensity=EXPR_FILE.SampleNumberDensity, \
neNumberOfSlices=EXPR_FILE.SampleNumberOfSlices, \
SampleNumberOfAnnu
                         True
SampleNumberOfWav
                         True
elengthPoints
SampleExpMethod
                          True
                                        EXPR FILE.SampleAbsCorrected = True
LowerLambda
                          True
                                    def load_sac_eff(EXPR_FILE, NoSAC=False, Eff=True):
                          True ->
UpperLambda
                          Differs
OutSuf
                                    def focus_one(...)
                         False
                                    if EXPR FILE.OutSuf == "":
                                    rearrang4gss(OutputFile, EXPR FILE)
                                    rearrange 4nex(OutputFile, EXPR FILE)
XYEDspc
                          False
XYEtof
                          False
Drange
                          False
                                    EXPR FILE.Drange)
                                    def bin_bank(InputArea, bankList, Drange):
                                     arams=Drange[i - 1])
                                    def sets_drange(wkspc, EXPR_FILE):
Drange = xbegin + ",-" + EXPR_FILE.Bining[i] + "," +
                                    xend
                                    EXPR FILE.Drange.append(Drange)
```

## **Parameters:**

All	Equals `=` in	Used Where
variables	`mtd.pref`	Osed Wilele
read from	ma.prei	
`mtd.pref`		
OffFile / Offsets	hrpd_new_072_01_corr .cal	-
GrpFile	hrpd_new_072_01_corr	<pre>def load_sac_eff():</pre>
/ Grouping	.cal	<pre># Loads SAC/Efficiency correction in wkspc "Corr" or sets it to "1"    newCalFile = EXPR_FILE.CorrVanDir + '/' + EXPR_FILE.GrpFile</pre>
		<pre>def focus_one():     newCalFile = join(EXPR_FILE.user, EXPR_FILE.GrpFile)</pre>
		<pre>def create_vana(EXPR_FILE, NoAbs=False):    if EXPR_FILE.VGrpfocus == "sam":         GrpFile = EXPR_FILE.Path2DatGrpFile else:         GrpFile = EXPR_FILE.Path2VanGrpFile</pre>
		DiffractionFocussing(InputWorkspace="Vanadium_corr", OutputWorkspace="Vanadium_foc", GroupingFileName=GrpFile, PreserveEvents=False)
VrunnoList / Vanadium	39191	-
VErunnoList / V-Empty	39187	-
SErunnoList / S-Empty	0	-
ExistV / ExistingV	Yes	<pre>def focus_all()  if EXPR_FILE.ExistV == "load":     for i in EXPR_FILE.bankList:         spec = i - 1         vanfil = EXPR_FILE.CorrVanFile + "-" +  str(spec) + ".nxs"         LoadNexusProcessed(Filename=vanfil,  OutputWorkspace="Vanadium-" + str(i))         # CORRECT  elif EXPR_FILE.ExistV == "no" and  EXPR_FILE.VGrpfocus == "van":     print "was here?"     cry_vana.create_vana(EXPR_FILE, NoAbs=NoVabs)</pre>
XYEtof /XYE-TOF	Yes	-
XYEdspc /XYE-D	Yes	-
GSS	yes	<pre>def rearrang4gss(OutputFile, EXPR_FILE): if EXPR_FILE.GSS == "no":     return if len(EXPR_FILE.bankList[1:]) &gt; 1:     SaveGSS(InputWorkspace="ResultTOFgrp") else:     SaveGSS(InputWorkspace="ResultTOF-1")</pre>

```
def rearrange_4nex(OutputFile, EXPR_FILE):
    if EXPR_FILE.Nex == "no":
Nex
               Yes
                                               SaveNexusProcessed(Filename=OutputFile + ".nxs",
                                           def sets drange(wkspc, EXPR FILE):
               3
NBank
                                           def load(...)
                                          blist = range(1, self.Instr.nbank + 1)
                                           def sets_drange(wkspc, EXPR_FILE):
CropRange
               0.05 0.95
CropRange
               0.0001
Bining
/ Bining
                                          x_data[0]) / last) - 1
    if datbin > float(EXPR_FILE.Bining[i]):
                                          i] + ' is lower than diffraction focusing rebining step'

print 'WARNING: Rebining Kept to be ' +
               1-3
                                          def focus one(...)
bankList
                                          cry load.bin bank("ResultD", EXPR FILE.bankList,
/ BankList
                                          def divide_samp_vana(EXPR_FILE, Norm):
```