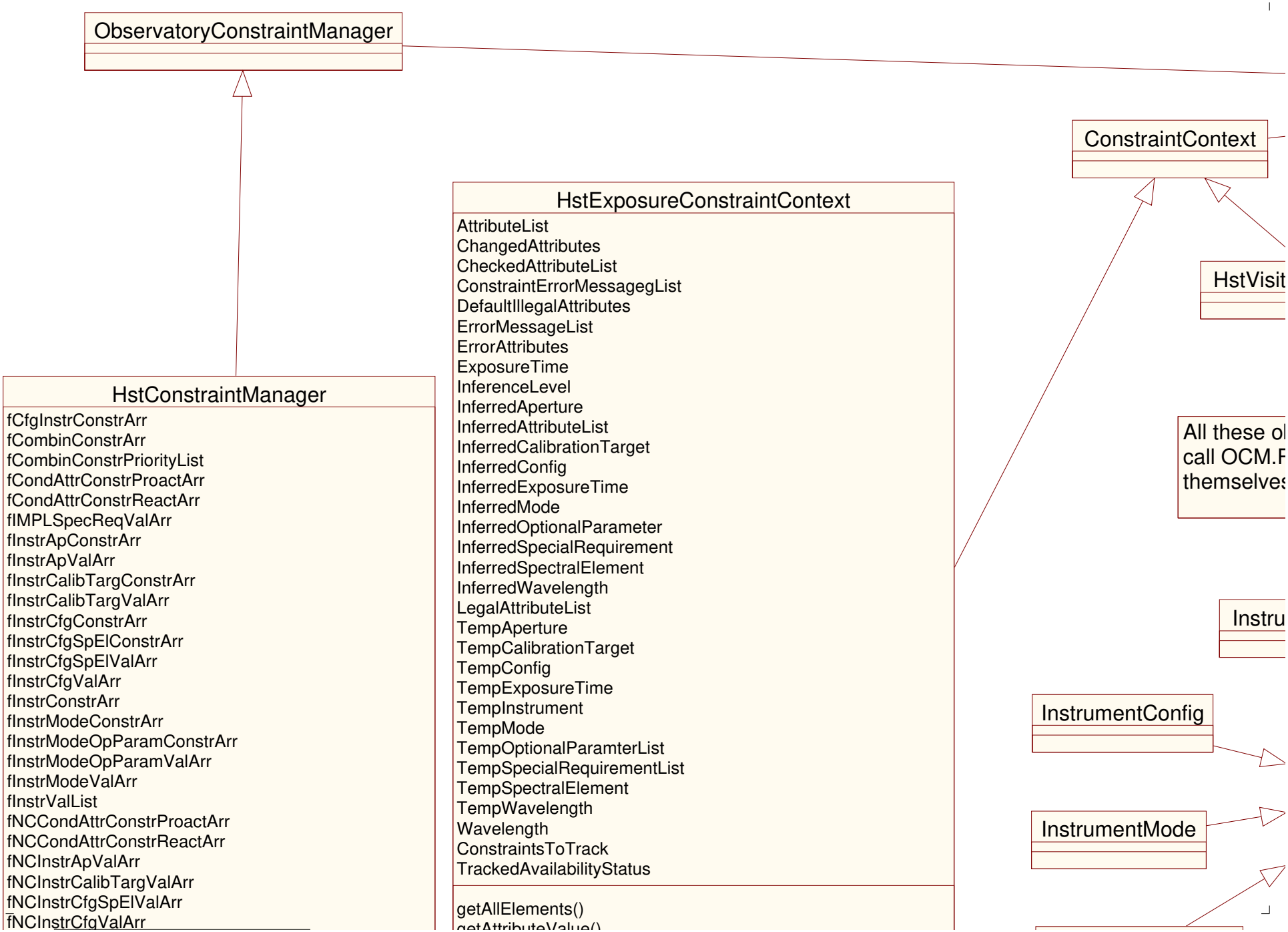
ObservatoryConstraintManager
ConstraintContext
HstExposureConstraintContext
AttributeList
ChangedAttributes
CheckedAttributeList
ConstraintErrorMessagegList
DefaultIllegalAttributes
ErrorMessageList
ErrorAttributes
ExposureTime
InferenceLevel
InferredAperture
InferredAttributeList
InferredCalibrationTarget
InferredConfig
InferredExposureTime
InferredMode
InferredOptionalParameter
InferredSpecialRequirement
InferredSpectralElement
InferredWavelength
LegalAttributeList
TempAperture
TempCalibrationTarget
TempConfig
TempExposureTime
TempInstrument
TempMode
TempOptionalParamterList
TempSpecialRequirementList
TempSpectralElement
TempWavelength
Wavelength
ConstraintsToTrack
TrackedAvailabilityStatus
getAllElements()
HstConstraintManager
fCfgInstrConstrArr
fCombinConstrArr
fCombinConstrPriorityList
fCondAttrConstrProactArr
fCondAttrConstrReactArr
fIMPLSpecReqValArr
fInstrApConstrArr
fInstrApValArr
fInstrCalibTargConstrArr
fInstrCalibTargValArr
fInstrCfgConstrArr
fInstrCfgSpElConstrArr
fInstrCfgSpElValArr
fInstrCfgValArr
fInstrConstrArr
fInstrModeConstrArr
fInstrModeOpParamConstrArr
fInstrModeOpParamValArr
fInstrModeValArr
fInstrValList
fNCCondAttrConstrProactArr
fNCCondAttrConstrReactArr
fNCInstrApValArr
fNCInstrCalibTargValArr
fNCInstrCfgSpElValArr
fNCInstrCfgValArr
HstVisit
All these ol
call OCM.F
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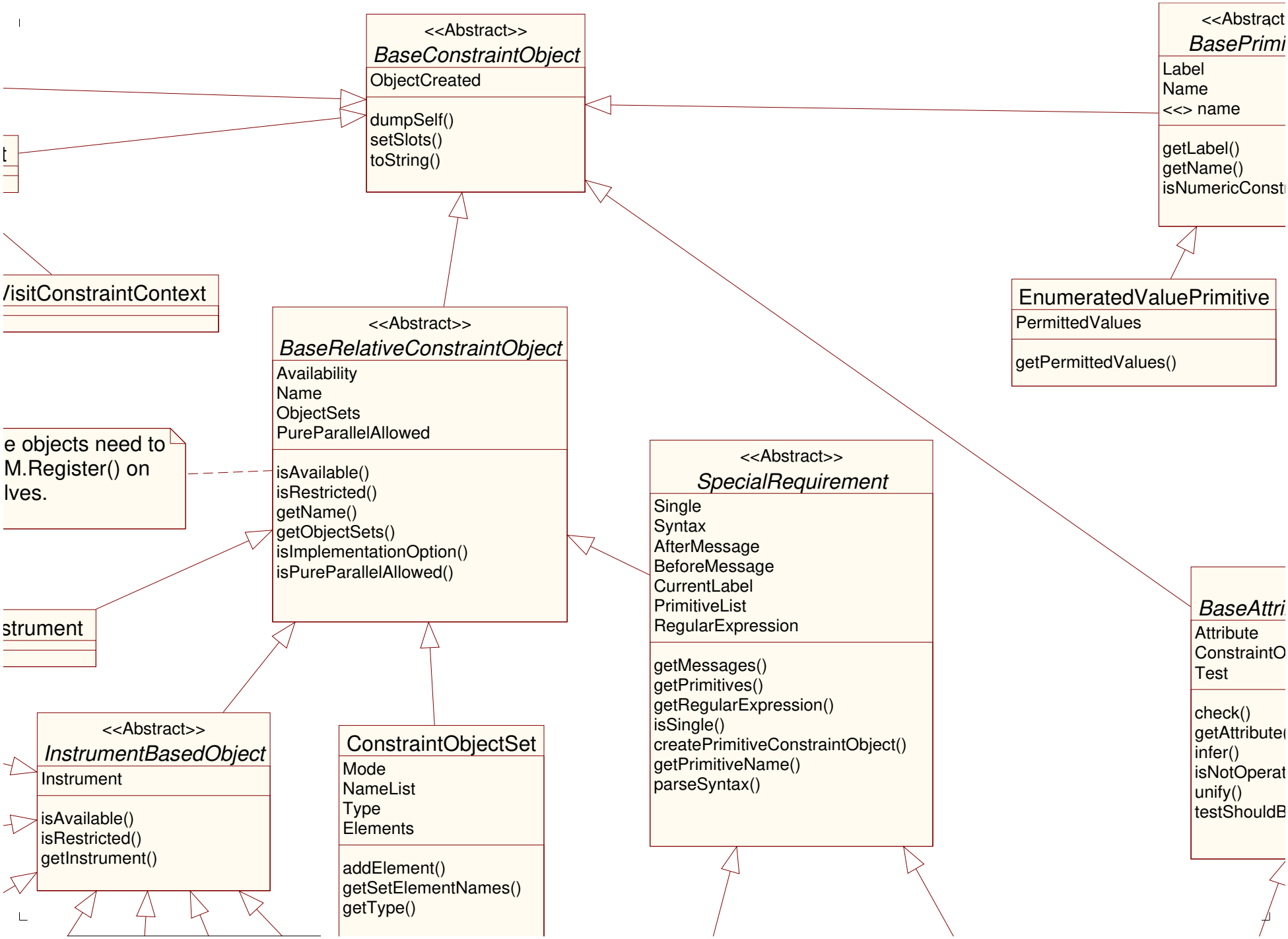
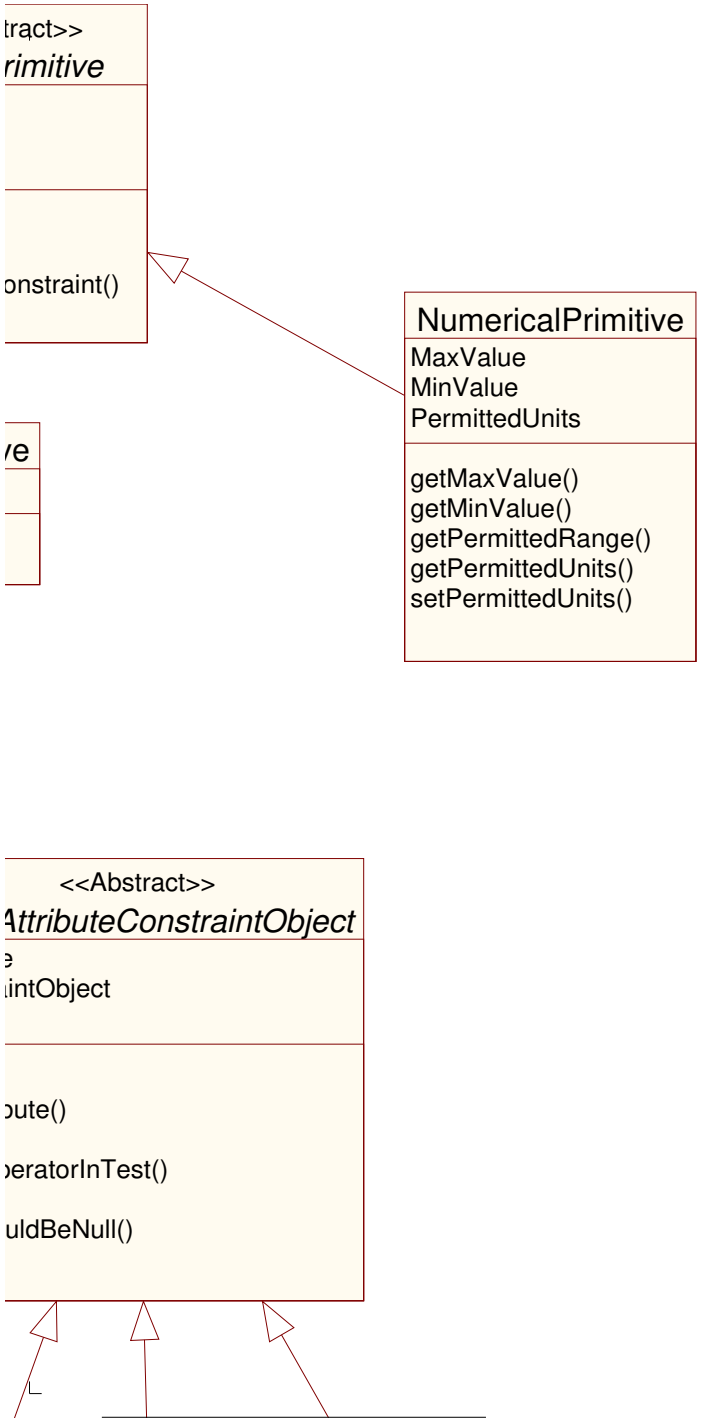
InstrumentConfig
InstrumentMode


<<Abstract>>
BaseConstraintObject
ObjectCreated
dumpSelf()
setSlots()
toString()
<<Abstract
BasePrimi
Label
Name
<<> name
getLabel()
getName()
isNumericConst
/isitConstraintContext
<<Abstract>>
BaseRelativeConstraintObject
Availability
Name
ObjectSets
PureParallelAllowed
isAvailable()
isRestricted()
getName()
getObjectSets()
isImplementationOption()
isPureParallelAllowed()
EnumeratedValuePrimitive
PermittedValues
getPermittedValues()
e objects need to
M.Register() on
lves.
<<Abstract>>
SpecialRequirement
Single
Syntax
AfterMessage
BeforeMessage
CurrentLabel
PrimitiveList
RegularExpression
getMessages()
getPrimitives()
getRegularExpression()
isSingle()
createPrimitiveConstraintObject()
getPrimitiveName()
parseSyntax()
strument
BaseAttri
Attribute
ConstraintO
Test
check()
getAttribute(
infer()
isNotOperat
unify()
testShouldB
<<Abstract>>
InstrumentBasedObject
Instrument
isAvailable()
isRestricted()
getInstrument()
ConstraintObjectSet
Mode
NameList
Type
Elements
addElement()
getSetElementNames()
getType()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ve
NumericalPrimitive
MaxValue
MinValue
PermittedUnits
getMaxValue()
getMinValue()
getPermittedRange()
getPermittedUnits()
setPermittedUnits()
<<Abstract>>
AttributeConstraintObject
e
aintObject
bute()
eratorInTest()
uldBeNull()

fNCInstrCfgSpElValArr
fNCInstrCfgValArr
fNCInstrModeOpParamValArr
fNCInstrModeValArr
fNCResAttrConstrProactArr
fNCResAttrConstrReactArr
fNCSpecReqValArr
fNECondAttrConstrProactArr
fNECondAttrConstrReactArr
fNEInstrApValArr
fNEInstrCalibTargValArr
fNEInstrCfgSpElValArr
fNEInstrCfgValArr
fNEInstrModeOpParamValArr
fNEInstrModeValArr
fNEResAttrConstrProactArr
fNEResAttrConstrReactArr
fNESpecReqValArr
fObjSetConstrArr
fPARInstrCalibTargValArr
fPARInstrCfgValArr
fPARInstrModeOpParamValArr
fPARInstrModeValArr
fPARSpecReqValArr
fResAttrConstrProactArr

setSlots()
register(i_instrument : Instrument)
register(i_config : InstrumentConfig)
register(i_mode : InstrumentMode)
register(i_aperture : InstrumentAperture)
register(i_specEl : InstrumentSpectralElement)
register(i_opParam : InstrumentOptionalParameter)
register(i_calibTarget : InstrumentCalibrationTarget)
register(i_visitSR : VisitSpecialRequirement)
register(i_combo : CombinationConstraint)
register(i_objectSet : ConstraintObjectSet)
getElementNames()
registerInObjectSets()
indexOnAttribute()
indexOnAttributeReactive()
indexOnAttributeProactive()
dumpSelf()
getInstrumentObject()
register(i_expSR : ExposureSpecialRequirement)

getAllElements()
getAttributeValue()
getErrorAttributes()
getLegalElements()
getProactiveInferenceResults()
getReactiveInferenceResults()
proactiveInferredLegalExposureTime()
performProactiveInferencing()
proactiveInferredLegalWavelength()
performReactiveInferencing()
recordCheckedAttribute()
recordIllegalAttribute()
recordInferredAttribute()
recordLegalAttribute()
setSelf()
errorCheck(i_aperture : InstrumentAperture)
errorCheck(i_calibTarget : InstrumentCalibrationTarget)
errorCheck(i_config : InstrumentConfig)
errorCheck(i_mode : InstrumentMode)
errorCheck(i_opParams[] : InstrumentOptionalParameter)
errorCheck(i_SpectralElement : InstrumentSpectralElement)
errorCheck(i_specialReqs[] : ExposureSpecialRequirement)
errorCheck(i_wavelength : WavelengthAttribute)
filterErrors()
filterInferredValues()
filterOptionalParameters()
filterSpectralElements()
filterSpecialRequirements()
genericFilter()
getTrackedAvailabilityStatus()
initialize()
insertAvailabilityLevel()
makeRemainingChecks()
makeRemainingInferences()
markConstraintAsHavingRun()
maxAttributeValue()
minAttributeValue()
registerConstraintToTrack()
resetConstraintsToTrack()
updateAvailabilityStatus()

InstrumentAperture

InstrumentCalibrationTa
External

isExternal()
isInternal()

Instru
Config
MaxW
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getCo
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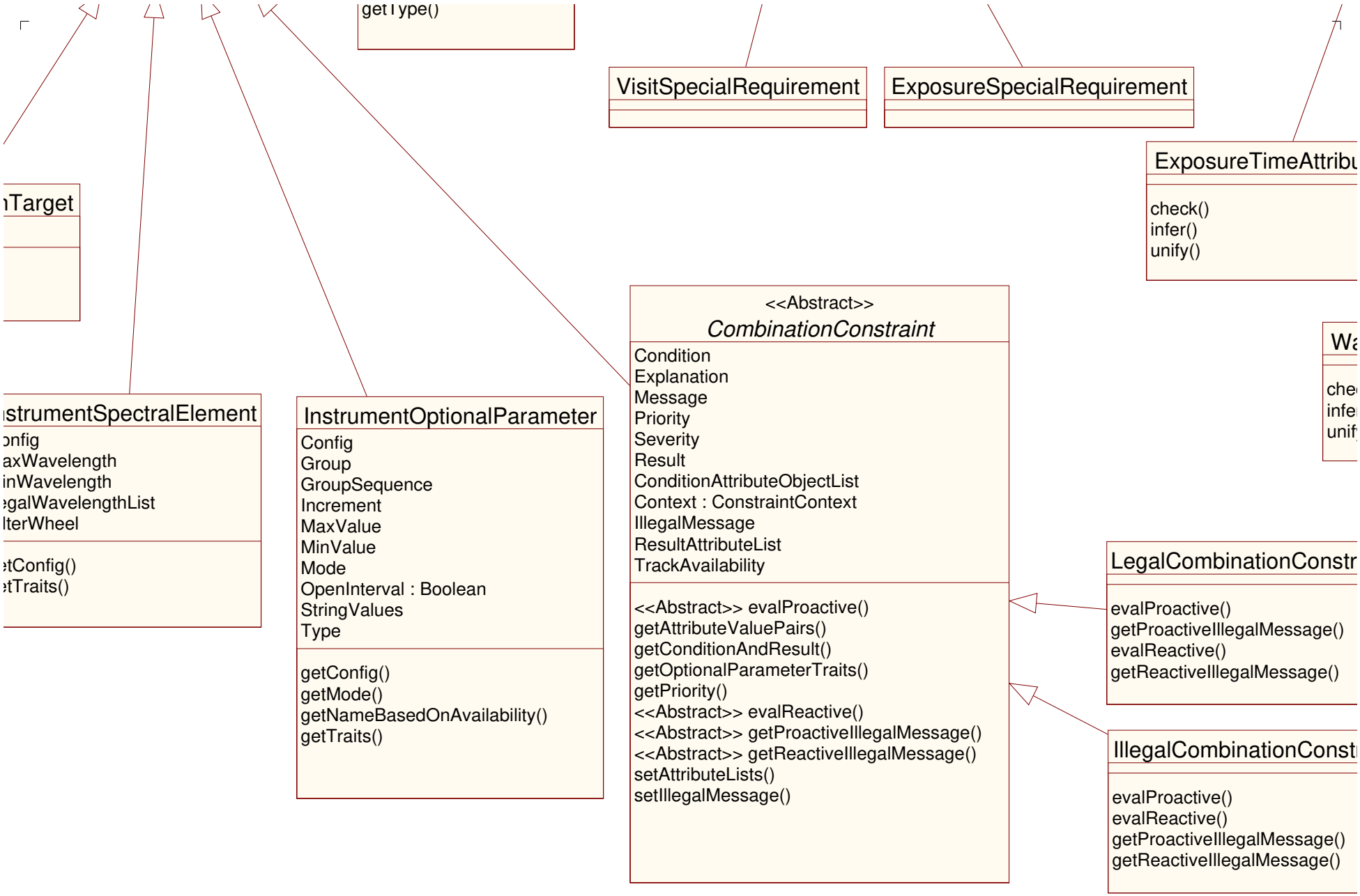
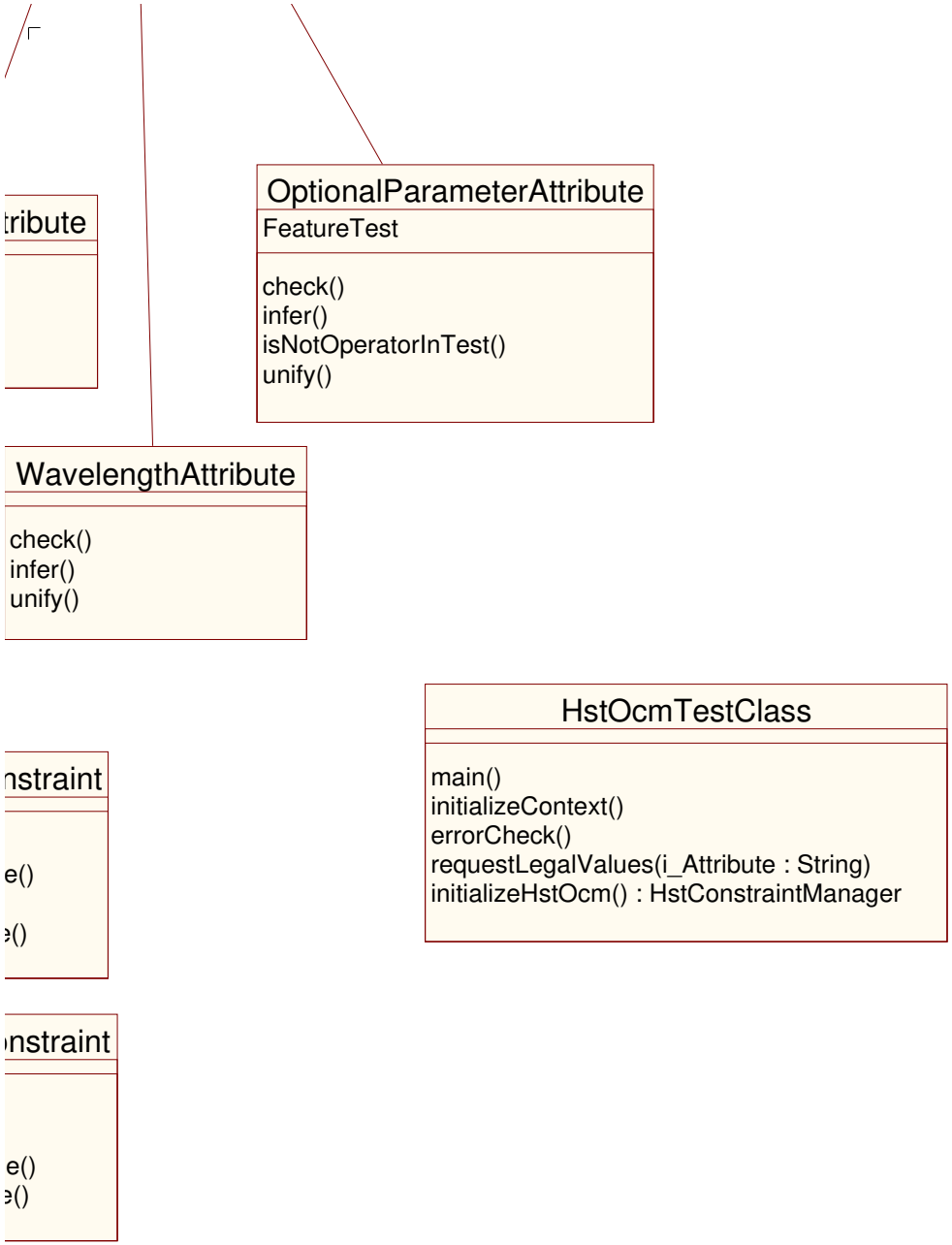
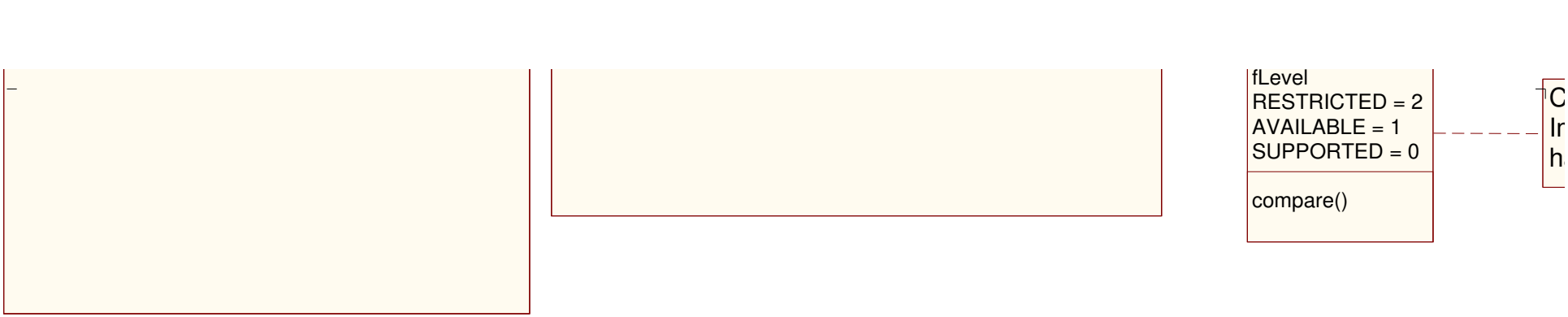
Availability
fLevel
RESTRICTED = 2

C


getType()
VisitSpecialRequirement
ExposureSpecialRequirement
ExposureTimeAttribu
check()
infer()
unify()
nTarget
strumentSpectralElement
onfig
axWavelength
inWavelength
egalWavelengthList
lterWheel
etConfig()
etTraits()
InstrumentOptionalParameter
Config
Group
GroupSequence
Increment
MaxValue
MinValue
Mode
OpenInterval : Boolean
StringValues
Type
getConfig()
getMode()
getNameBasedOnAvailability()
getTraits()
<<Abstract>>
CombinationConstraint
Condition
Explanation
Message
Priority
Severity
Result
ConditionAttributeObjectList
Context : ConstraintContext
IllegalMessage
ResultAttributeList
TrackAvailability
<<Abstract>> evalProactive()
getAttributeValuePairs()
getConditionAndResult()
getOptionalParameterTraits()
getPriority()
<<Abstract>> evalReactive()
<<Abstract>> getProactiveIllegalMessage()
<<Abstract>> getReactiveIllegalMessage()
setAttributeLists()
setIllegalMessage()
Wa
LegalCombinationConstr
evalProactive()
getProactiveIllegalMessage()
evalReactive()
getReactiveIllegalMessage()
IllegalCombinationConst
evalProactive()
evalReactive()
getProactiveIllegalMessage()
getReactiveIllegalMessage()
Can PureParAllowed and


tribute
OptionalParameterAttribute
FeatureTest
check()
infer()
isNotOperatorInTest()
unify()
WavelengthAttribute
check()
infer()
unify()
nstraint
e()
e()
HstOcmTestClass
main()
initializeContext()
errorCheck()
requestLegalValues(i_Attribute : String)
initializeHstOcm() : HstConstraintManager
nstraint
e()
e()


fLevel
RESTRICTED = 2
AVAILABLE = 1
SUPPORTED = 0
compare()

Can PureParAllowed and ImplementationOnly be handled with this too?