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BDSAcceleratorComponent

+ itsOuterLogicalVolume
+ itsMarkerLogicalVolume
+ itsTunnelLogicalVolume
+ itsTunnelFloorLogicalVolume
# itsBlmLocationR
# itsName
# itsLength
# itsXLength
# itsYLength
# itsOuterR
# itsBpRadius
# itsXAper
# itsYAper
# itsAngle
# itsMaterial
# itsVisAttributes
# itsBlmLocZ
# itsBlmLocTheta
# itsTunnelMaterial
# itsXOffset
# itsYOffset
# itsZOffset
# itsTunnelRadius
# itsTunnelOffsetX
# itsType
# itsTilt
# itsPhiAngleIn
# itsPhiAngleOut
# itsMagScaleFactor
# itsPhi
# itsTheta
# itsPsi
# itsK1
# itsK2
# itsK3
# itsRotation
# itsPosition
# itsOuterStepper
# itsUserLimits
# itsOuterUserLimits
# itsMarkerUserLimits
# itsInnerBeampipeUserLimits
# itsInnerMostLogicalVolume
# itsTunnelCavityMaterial
# itsPrecisionRegion
# itsMarkerSolidVolume
# itsTunnelSolid
# itsSoilSolid
# itsInnerTunnelSolid
# itsTunnelCavity
# itsLargerTunnelCavity
# itsTunnelFloor
# itsLargerInnerTunnelSolid
# itsTunnelMinusCavity
# itsTunnelSizedBlock
# itsBLMLogicalVolume
# itsBlmCaseLogicalVolume
# itsBLMPhysiComp
# itsSoilTunnelLogicalVolume
# itsTunnelCavityLogicalVolume
# itsTunnelMinusCavityLogicalVolume
# itsTunnelPhysiInner
# itsTunnelPhysiComp
# itsTunnelFloorPhysiComp
# itsTunnelPhysiCompSoil
# itsTunnelUserLimits
# itsSoilTunnelUserLimits
# itsInnerTunnelUserLimits
- nullRotationMatrix
- tunnelRot
- VisAtt
- VisAtt1
- VisAtt2
- VisAtt3
- VisAtt4
- VisAtt5
- itsBLMSolid
- itsBlmOuterSolid
- itsSPos
- itsCopyNumber
- itsBDSEnergyCounter
- itsSensitiveVolume
- itsMultipleSensitiveVolumes
- itsGFlashVolumes
- itsMultiplePhysicalVolumes

+ ~BDSAcceleratorComponent()
+ GetName()
+ SetName()
+ GetType()
+ SetType()
+ GetPrecisionRegion()
+ SetPrecisionRegion()
+ BuildTunnel()
+ BuildBLMs()
+ BuildGate()
+ GetAngle()
+ SetLength()
+ GetLength()
+ GetZLength()
+ GetXLength()
+ GetYLength()
+ GetArcLength()
+ GetPhiAngleIn()
+ GetPhiAngleOut()
+ GetPhi()
+ SetPhi()
+ GetTheta()
+ SetTheta()
+ GetPsi()
+ SetPsi()
+ GetXOffset()
+ GetYOffset()
+ GetZOffset()
+ GetTunnelRadius()
+ GetTunnelOffsetX()
+ GetAperX()
+ GetAperY()
+ GetK1()
+ GetK2()
+ GetK3()
+ SetK1()
+ SetK2()
+ SetK3()
+ GetRotation()
+ GetPosition()
+ SetPosition()
+ GetTilt()
+ GetMarkerLogicalVolume()
+ GetTunnelLogicalVolume()
+ GetTunnelCavityMaterial()
+ GetBDSEnergyCounter()
+ SetBDSEnergyCounter()
+ GetCopyNumber()
+ GetSPos()
+ SetSPos()
+ SetCopyNumber()
+ SetSensitiveVolume()
+ GetSensitiveVolume()
+ SetMultipleSensitiveVolumes()
+ GetMultipleSensitiveVolumes()
+ SetGFlashVolumes()
+ GetGFlashVolumes()
+ SetMultiplePhysicalVolumes()
+ GetMultiplePhysicalVolumes()
+ SetInnerMostLogicalVolume()
+ GetInnerMostLogicalVolume()
+ GetInnerBPUserLimits()
+ GetUserLimits()
+ BDSAcceleratorComponent()
+ BuildOuterFieldManager()
+ PrepareField()
+ SynchRescale()
+ AlignComponent()
+ getParameterValue()
+ getParameterValueString()
+ BDSAcceleratorComponent()
+ BDSAcceleratorComponent()
+ GetVisAttributes()
# CalculateLengths()
- ConstructorInit()

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BDSMagField

+ rotation
+ translation

+ BDSMagField()
+ ~BDSMagField()
+ DoesFieldChangeEnergy()
+ GetFieldValue()
+ Prepare()
+ SetOriginRotation()
+ SetOriginTranslation()
+ GetHasNPoleFields()
+ GetHasUniformField()
+ GetHasFieldMap()

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BDSField

+ rotation
+ translation

+ BDSField()
+ ~BDSField()
+ DoesFieldChangeEnergy()
+ GetFieldValue()
+ Prepare()
+ SetOriginRotation()
+ SetOriginTranslation()

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BDSElement

- itsFieldVolName
- itsFieldIsUnifom
- fChordFinder
- itsFStepper
- itsFEquation
- itsEqRhs
- itsField
- itsMagField
- itsUniformMagField
- itsOuterR
- align_in_volume
- align_out_volume

+ BDSElement()
+ ~BDSElement()
+ BuildElementMarkerLogicalVolume()
+ BuildGeometry()
+ PlaceComponents()
+ BuildMagField()
+ PrepareField()
+ AlignComponent()
# SetVisAttributes()

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itsMagField

itsField

