

```

BDSAcceleratorComponent
# name
# arcLength
# type
# chordLength
# angle
# tiltOffset
# precisionRegion
# beamPipeInfo
# lengthSafety
# emptyMaterial
- readOutLV
- itsSPos
- itsGFlashVolumes
- itsMultiplePhysicalVolumes

+ BDSAcceleratorComponent()
+ ~BDSAcceleratorComponent()
+ GetName()
+ GetType()
+ GetPrecisionRegion()
+ GetAngle()
+ GetTiltOffset()
+ GetArcLength()
+ GetChordLength()
+ GetReadOutLogicalVolume()
+ PrepareField()
+ GetParameterValue()
+ GetParameterValueString()
+ GetSPos()
+ SetSPos()
+ SetGFlashVolumes()
+ GetGFlashVolumes()
+ SetMultiplePhysicalVolumes()
+ GetMultiplePhysicalVolumes()
# Initialise()
# Build()
# BuildContainerLogicalVolume()
- BDSAcceleratorComponent()
- operator=()
- BDSAcceleratorComponent()
* GetParameterValue()
* GetParameterValueString()
* GetSPos()
* SetSPos()
* SetGFlashVolumes()
* GetGFlashVolumes()
* SetMultiplePhysicalVolumes()
* GetMultiplePhysicalVolumes()
* name
* arcLength
* type
* chordLength
* angle
* tiltOffset
* precisionRegion
* beamPipeInfo

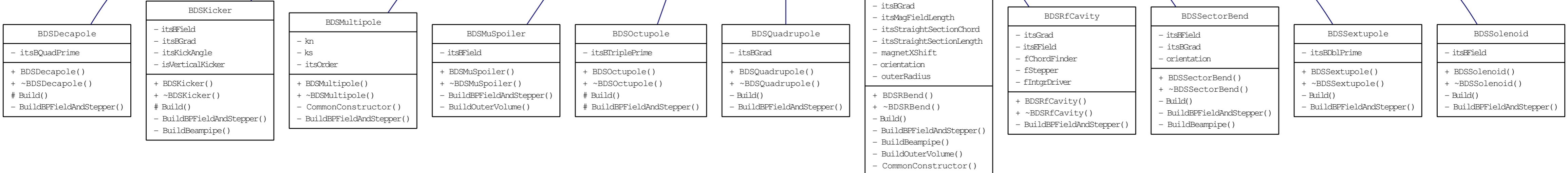
```

```

BDSMagnet
# itsType
# itsStepper
# itsMagField
# itsEqRhs
# itsBeampipeLogicalVolume
# itsInnerBPLogicalVolume
# itsBeampipeUserLimits
# itsPhysiComp
# itsPhysiInner
# itsBFFieldMgr
# itsOuterFieldMgr
# itsInnerIronRadius
# itsChordFinder
# itsOuterMagField
# beamPipeInfo
# beampipe
# outerDiameter
# outer
# itsMagnetOuterInfo
# itsK1
# itsK2
# itsK3
# inputface
# outputface

+ BDSMagnet()
+ ~BDSMagnet()
+ GetK1()
+ GetK2()
+ GetK3()
# Build()
# BuildContainerLogicalVolume()
# BuildOuterVolume()
# BuildBeampipe()
# BeamPipeCommonTasks()
# BuildOuterFieldManager()
- BuildBFFieldMgr()
- BuildBFFieldAndStepper()
- FinaliseBeampipe()
* GetK1()
* GetK2()
* GetK3()
* inputface
* outputface

```



```

BDSDecapole
- itsBQuadPrime

+ BDSDecapole()
+ ~BDSDecapole()
# Build()
- BuildBFFieldAndStepper()

```

```

BDSKicker
- itsBField
- itsBGrad
- itsKickAngle
- isVerticalKicker

+ BDSKicker()
+ ~BDSKicker()
# Build()
- BuildBFFieldAndStepper()
- BuildBeampipe()

```

```

BDSMultipole
- kn
- ks
- itsOrder

+ BDSMultipole()
+ ~BDSMultipole()
- CommonConstructor()
- BuildBFFieldAndStepper()

```

```

BDSMuSpoiler
- itsBField

+ BDSMuSpoiler()
+ ~BDSMuSpoiler()
- BuildBFFieldAndStepper()
- BuildOuterVolume()

```

```

BDSOctupole
- itsBTriplePrime

+ BDSOctupole()
+ ~BDSOctupole()
# Build()
# BuildBFFieldAndStepper()

```

```

BDSQuadrupole
- itsBGrad

+ BDSQuadrupole()
+ ~BDSQuadrupole()
- Build()
- BuildBFFieldAndStepper()

```

```

BDSRBend
- itsBField
- itsBGrad
- itsStraightSectionChord
- itsStraightSectionLength
- magnetXShift
- orientation
- outerRadius

+ BDSRBend()
+ ~BDSRBend()
- Build()
- BuildBFFieldAndStepper()
- BuildBeampipe()
- BuildOuterVolume()
- CommonConstructor()

```

```

BDSRFCavity
- itsBGrad
- itsBField
- fChordFinder
- fStepper
- fIntgrDriver

+ BDSRFCavity()
+ ~BDSRFCavity()
- BuildBFFieldAndStepper()

```

```

BDSSectorBend
- itsBField
- itsBGrad
- orientation

+ BDSSectorBend()
+ ~BDSSectorBend()
- Build()
- BuildBFFieldAndStepper()
- BuildBeampipe()

```

```

BDS Sextupole
- itsBObPrime

+ BDS Sextupole()
+ ~BDS Sextupole()
- Build()
- BuildBFFieldAndStepper()

```

```

BDSSolenoid
- itsBField

+ BDSSolenoid()
+ ~BDSSolenoid()
- Build()
- BuildBFFieldAndStepper()

```