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| **Inheritance Extract Class Refactoring Suggestions** | | |
| Original Class  [*N*split] | Extract Class | |
| New Class  [Superclass]  [Subclass] | Methods/Fields |
| BandPlotRenderer  [2] | BandPlotRenderer\_new\_1 [] [BandPlotEPSRenderer\_new\_1, BandPlotG2DRenderer\_new\_1] | getStringWidth(String,String, int)  getX()  setFont(String, int)  scalex  getPlotLength()  scaley  ratio  getMaxFontHeight(String, int)  getPlotHeight()  xorigin  ALIGN\_LEFT  BandPlotRenderer(BandPlot, double, double)  dummyFrame  getY()  ALIGN\_RIGHT  drawText(String, int, double, double, int, double)  drawLineA((double, double, double, double, int)  ebp  yorigin  setLineWidth((int)  ALIGN\_CENTER  plotLength  plotHeight  BandPlotRenderer\_new\_2\_Instance |
| BandPlotRenderer\_new\_2  [-]  [-] | drawHorizontalTicsLabel((double,String, int)  drawLineR((double, double, double, double, int)  drawHorizontalSeparation((int, double, double)  drawHorizontalTics((int, double, double, int)  drawVerticalAxisLabel(String, int)  drawVerticalSeparation((int)  getY((double)  y  getX((double)  x  drawSectionLine(BandPlot$BandPlotSection,EnergyBand$KLine, int, boolean)  render()  drawVerticalTics((int, boolean, int)  drawVerticalTicsLabels((int, int) |
| BandPlotEPSRenderer  [2] | BandPlotEPSRenderer\_new\_1 [BandPlotRenderer\_new\_1] [] | dummyFrame  setFont(String, int)  getX()  getMaxFontHeight(String, int)  setLineWidth((int)  drawLineA((double, double, double, double, int)  drawText(String, int, double, double, int, double)  BandPlotEPSRenderer(BandPlot, double, double,File)  getY()  y  writeLine(String)  w  BandPlotEPSRenderer\_new\_2\_Instance |
| BandPlotEPSRenderer\_new\_2  [-]  [-] | ebp  drawLineR((double, double, double, double, int)  drawHorizontalTicsLabel((double,String, int)  getY((double)  drawVerticalAxisLabel(String, int)  drawVerticalTicsLabels((int, int)  drawVerticalSeparation((int)  drawVerticalTics((int, boolean, int)  render()  drawHorizontalSeparation((int, double, double)  drawHorizontalTics((int, double, double, int)  getX((double)  x  scalex  xorigin  scaley  yorigin  replaceCharString(String, char,String)  file  plotLength  generateEPS()  plotHeight |
| BandPlotG2DRenderer  [2] | BandPlotG2DRenderer\_new\_1  [BandPlotRenderer\_new\_1]  [-] | g2  drawText(String, int, double, double, int, double)  getPlotLength()  setLineWidth((int)  setFont(String, int)  getStringWidth(String,String, int)  getMaxFontHeight(String, int)  getY()  drawLineA((double, double, double, double, int)  BandPlotG2DRenderer(BandPlot, double, double)  getPlotHeight()  plotHeight  getX()  x  BandPlotG2DRenderer\_new\_2\_Instance |
| BandPlotG2DRenderer\_new\_2  [-]  [-] | ebp  drawLineR((double, double, double, double, int)  drawHorizontalSeparation((int, double, double)  drawVerticalTicsLabels((int, int)  getX((double)  drawVerticalTics((int, boolean, int)  drawHorizontalTicsLabel((double,String, int)  render()  drawVerticalAxisLabel(String, int)  drawHorizontalTics((int, double, double, int)  drawVerticalSeparation((int)  getY((double)  y  setGraphics2D(Graphics2D)  xorigin  scalex  yorigin  scaley  getJPanel()  bandPlotPanel |
| ChemFile  [2] | ChemFile\_new\_1  [-]  [CrystalFile] | getBondsEnabled()  propertyList  ChemFile(DisplayControl, boolean)  addProperty(String)  getPropertyList()  getJmolAtomIterator()  control  ChemFile(DisplayControl)  bondsEnabled  ChemFile\_new\_2\_Instance |
| ChemFile\_new\_2  [-]  [-] | addFrame(ChemFrame)  getNumberOfFrames()  getAtomPropertyList()  getFrames()  frames  getFramePropertyList()  setFrame(ChemFrame, int)  getFrame((int) |