

```

classDiagram
    class BasicFitMethodFunction {
        kLeastSquare
        kLogLikelihood
        fNDim
        fNPoints
        fNCalls
    }
    class BasicFCN_IGradientFunctionMultiDim {
        fData
        fFunc
    }
    class BasicFCN_IGradientFunctionMultiDim_ {
        fExtended
        fWeight
        fNeffPoints
        fGrad
    }
    class BasicFCN_IGradientFunctionMultiDim_ {
        LogLikelihoodFCN@<ROOT::Math::IGradientFunctionMultiDim>
        LogLikelihoodFCN@<ROOT::Math::IGradientFunctionMultiDim>
        operator=
        Clone
        NFitPoints
        DataElement
        Gradient
        Type
        UseSumOfWeightSquare
    }
    BasicFitMethodFunction --|> BasicFCN_IGradientFunctionMultiDim
    BasicFCN_IGradientFunctionMultiDim --|> BasicFCN_IGradientFunctionMultiDim_
    BasicFCN_IGradientFunctionMultiDim_ --|> BasicFCN_IGradientFunctionMultiDim_
  
```