

ChargeFactory

```
classDiagram
    class ChargeFactory
    class ExponentialChargeFactory
    class GaussianChargeFactory
    ExponentialChargeFactory --|> ChargeFactory
    GaussianChargeFactory --|> ChargeFactory
```

A UML class diagram illustrating inheritance. At the top is a box labeled 'ChargeFactory'. Below it are two boxes: 'ExponentialChargeFactory' on the left and 'GaussianChargeFactory' on the right. A horizontal line connects the two bottom boxes, with a vertical line and an upward-pointing arrow from the center of this line to the bottom of the 'ChargeFactory' box, indicating that both subclasses inherit from the base class.

ExponentialChargeFactory

GaussianChargeFactory