

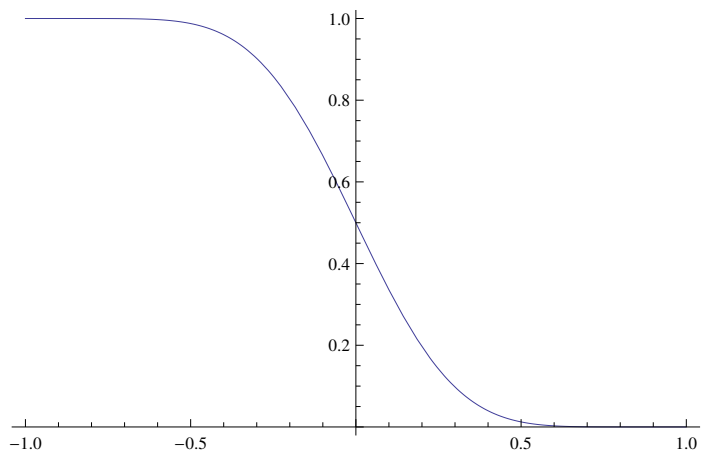
```
(* Generation of weight functions for Becke integration scheme *)
```

```
BeckeP[x_] := 3 / 2 * x - 1 / 2 * x^3
```

```
BeckeF3[x_] := BeckeP[BeckeP[BeckeP[x]]]
```

```
BeckeWeighti[x_] := 1 / 2 * (1 - BeckeF3[x])
```

```
Plot[BeckeWeighti[x], {x, -1, 1}]
```



```
(* Becke single center atomic integrals *)
```