0.1 DiracEquation

DiracEquation[exp] applies the Dirac equation without expanding exp. If expansions are necessary, use **DiracSimplify**.

0.1.1 See also

Overview

0.1.2 Examples

```
(\bar{\gamma} \cdot \overline{p}) . u(p, m)
    m\left(\varphi(\overline{p},m)\right)
(\bar{\gamma}\cdot \overline{p}).u(p,m)
    m\left(\varphi(\overline{p},m)\right)
(\overline{\gamma} \cdot \overline{p}) . v(p, m)
```

 $-m\left(\varphi(-\overline{p},m)\right)$

SpinorUBar[p, 0] . GS[p]
DiracEquation[%]

$$\bar{u}(p).(\bar{\gamma}\cdot \overline{p})$$

0

DiracEquation also works in *D*-dimensions

SpinorVBarD[p, m] . GSD[p]
DiracEquation[%]

$$\bar{v}(p,m).(\gamma \cdot p)$$

$$-m(\varphi(-p,m))$$