



Aspartículas

do Modelo Estándar

*u*

*d*

*S*

*c*

*b*



*t*

*e*

$\nu_e$

$\nu_{\mu}$

*$\mu$*

$\nu_\tau$

$\tau$

g



$\gamma$

*z*<sup>0</sup>

*w*±

$H^0$



# As partículas do Modelo Estándar

$H^0$

$u$

$c$

$t$

$d$

$s$

$b$

Materia  
estable

$e$

$\mu$

$\tau$

$\nu_e$

$\nu_\mu$

$\nu_\tau$

$\gamma$

$g$

$Z^0$

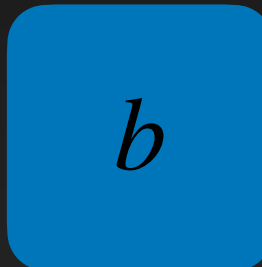
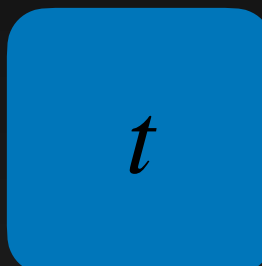
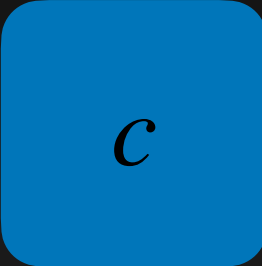
$W^\pm$

# As partículas do Modelo Estándar

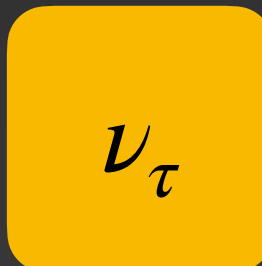
ESPIN 0



ESPIN 1/2



Materia  
estable



ESPIN 1

