

Up

PLUME



$\text{GeV} = 0,002$

= stable



Up

PLUME



$\text{GeV} = 0,002$

= stable



Up

PLUME



$\text{GeV} = 0,002$

= stable



Neutrino
Électron

PLUME



$\text{GeV} < 2 \cdot 10^{-10}$

= inconnue



Down

PLUME



$\text{GeV} = 0,005$

= 10



Down

PLUME



$\text{GeV} = 0,005$

= 10



Down

PLUME



$\text{GeV} = 0,005$

= 10



Électron

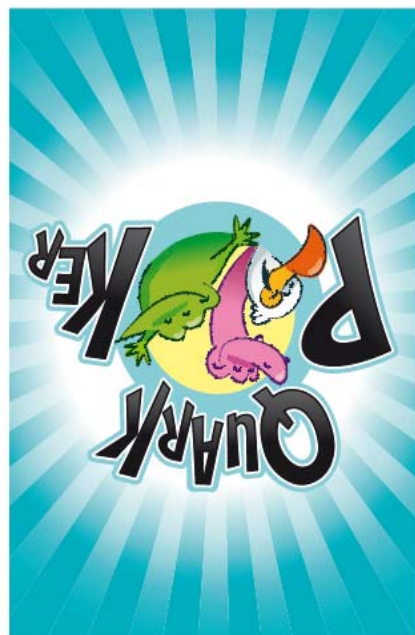
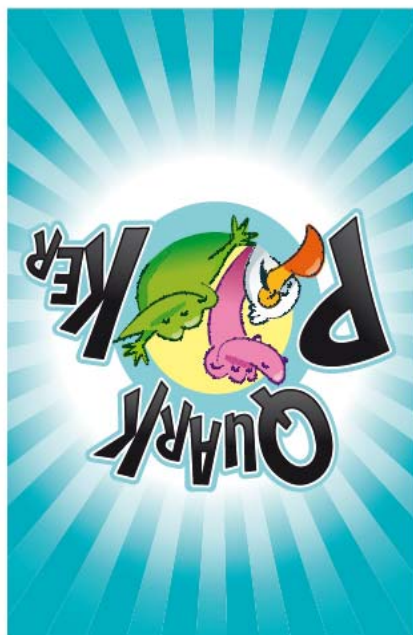
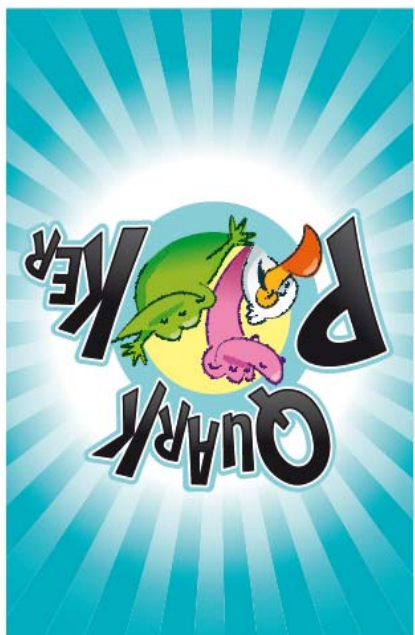
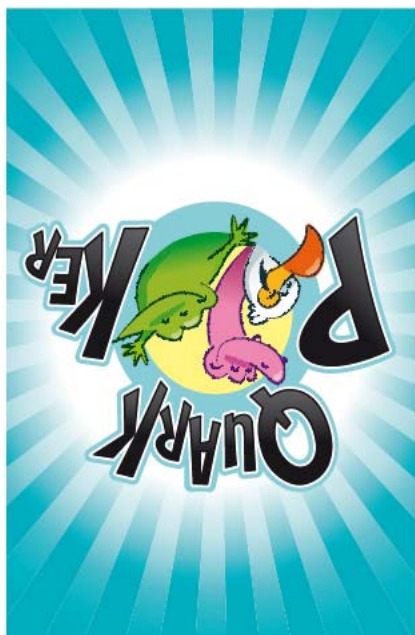
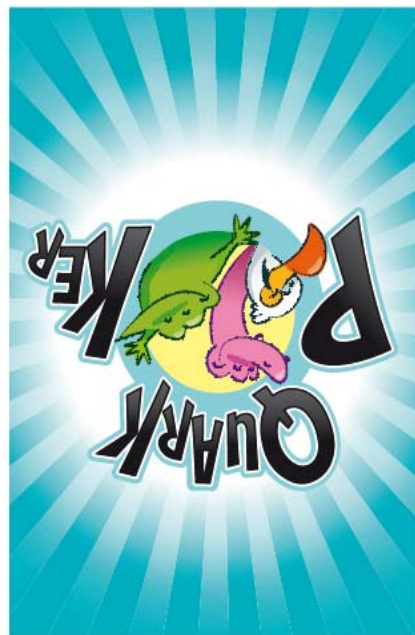
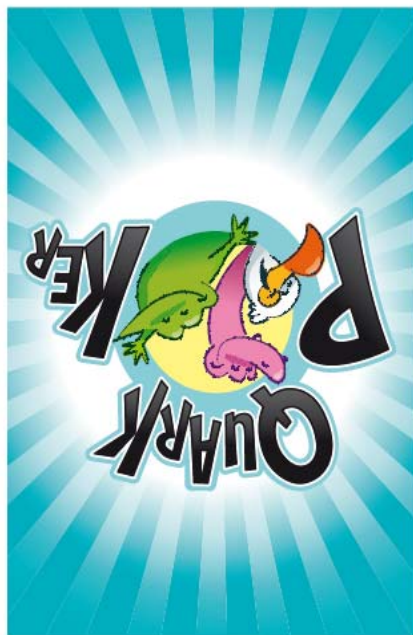
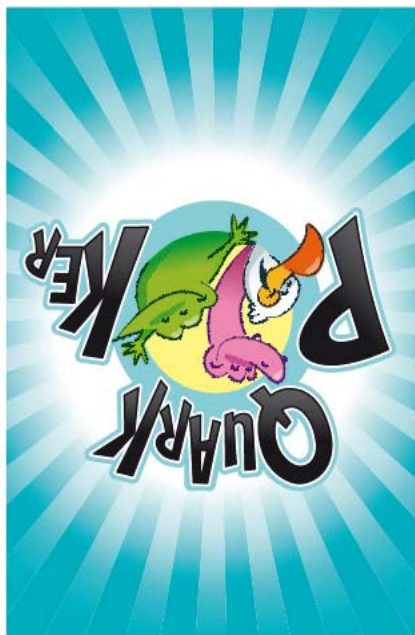
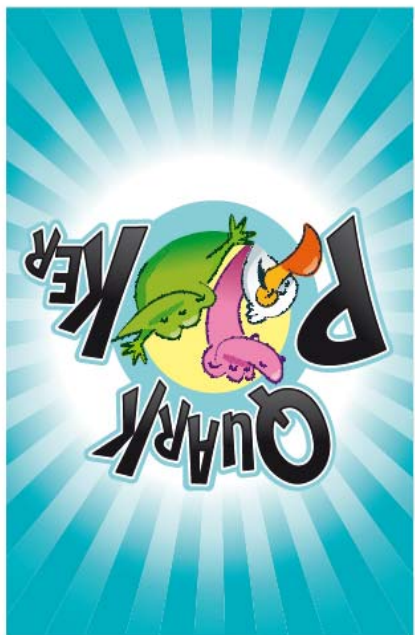
PLUME



$\text{GeV} = 0,0005485799$

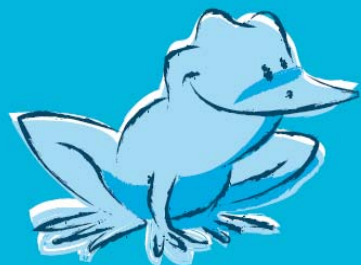
= stable





Charme

ADAMS



$\text{GeV} = 1,3$
 $\text{ns} = 0,001$



Charme

ADAMS



$\text{GeV} = 1,3$
 $\text{ns} = 0,001$



Charme

ADAMS



$\text{GeV} = 1,3$
 $\text{ns} = 0,001$



Neutrino
Muon

ADAMS

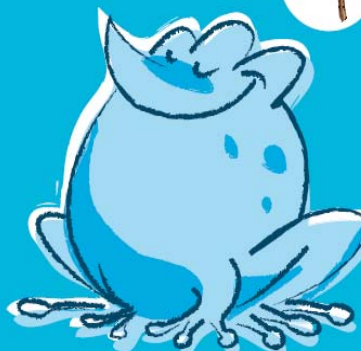


$\text{GeV} < 2 \cdot 10^{-10}$
= inconnue



Étrange

ADAMS



$\text{GeV} = 0,1$
 $\text{ns} = 0,1$



Étrange

ADAMS



$\text{GeV} = 0,1$
 $\text{ns} = 0,1$



Étrange

ADAMS



$\text{GeV} = 0,1$
 $\text{ns} = 0,1$



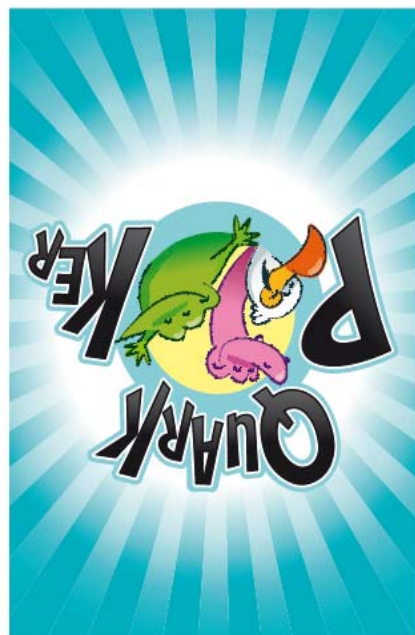
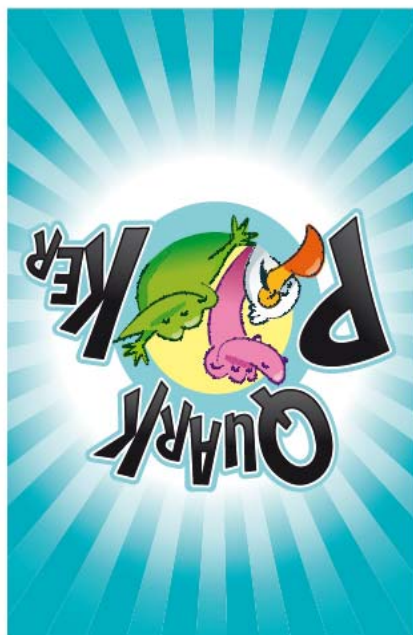
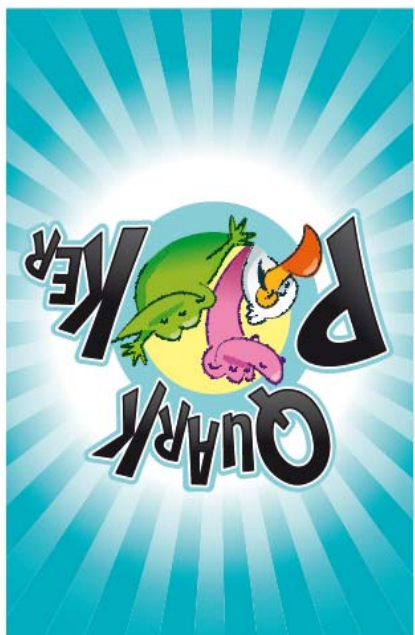
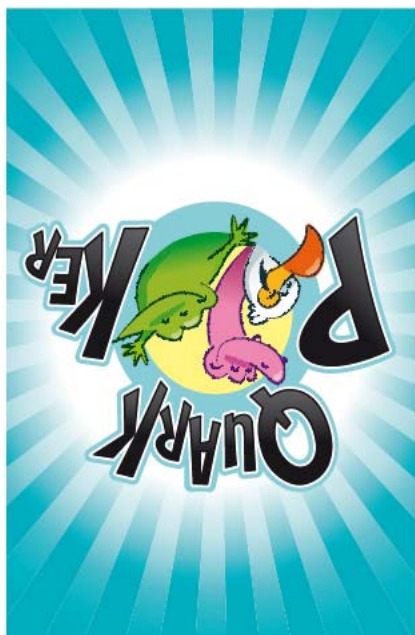
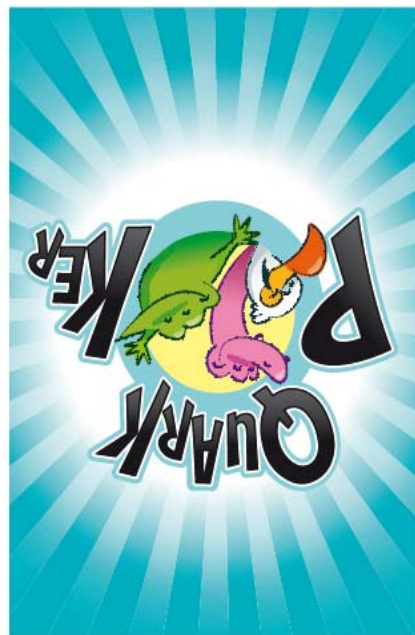
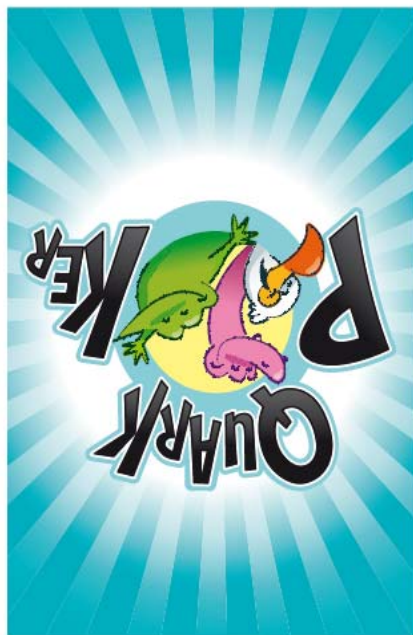
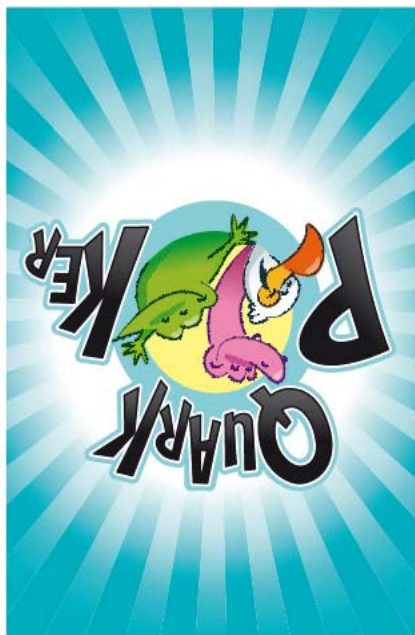
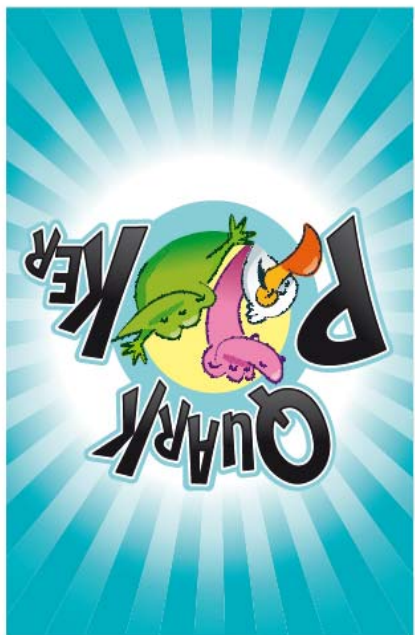
Muon

ADAMS



$\text{GeV} = 0,10565837$
 $\text{ns} = 2197$





Top

SUMO



$\text{GeV} = 173$
 $\text{ns} = 3 \cdot 10^{-16}$



Top

SUMO



$\text{GeV} = 173$
 $\text{ns} = 3 \cdot 10^{-16}$



Top

SUMO



$\text{GeV} = 173$
 $\text{ns} = 3 \cdot 10^{-16}$



Neutrino
 Tau

SUMO



$\text{GeV} < 2 \cdot 10^{-10}$
 $\text{ns} = \text{inconnue}$



Beauté

SUMO



$\text{GeV} = 4,2$
 $\text{ns} = 0,0015$



Beauté

SUMO



$\text{GeV} = 4,2$
 $\text{ns} = 0,0015$



Beauté

SUMO



$\text{GeV} = 4,2$
 $\text{ns} = 0,0015$



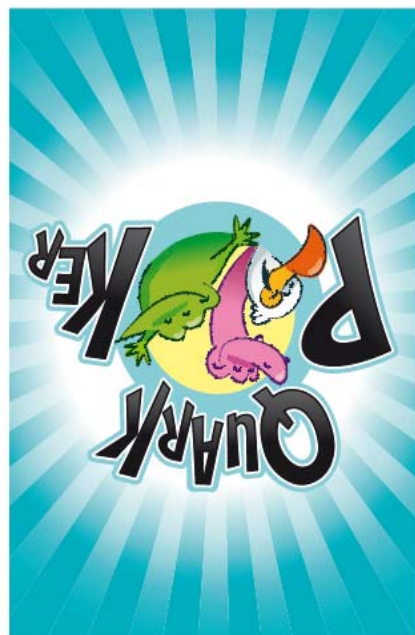
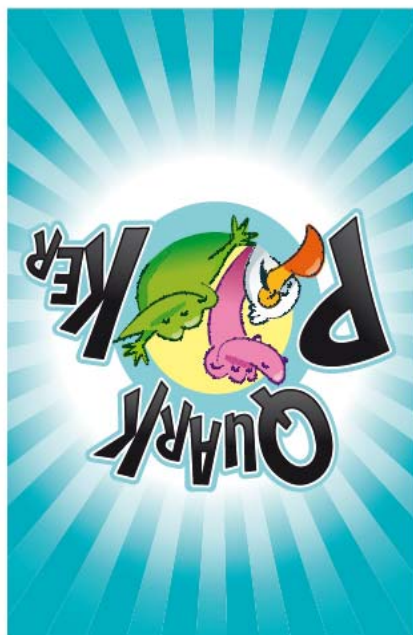
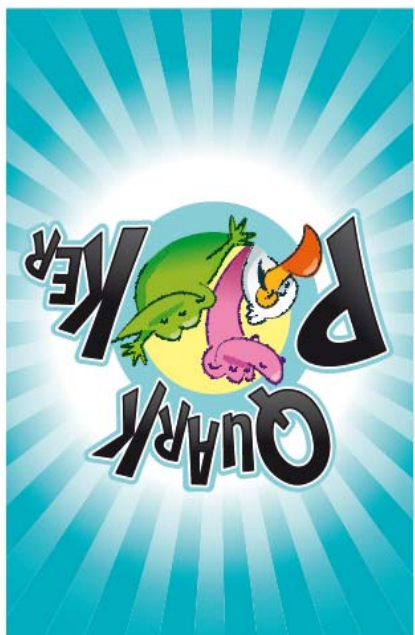
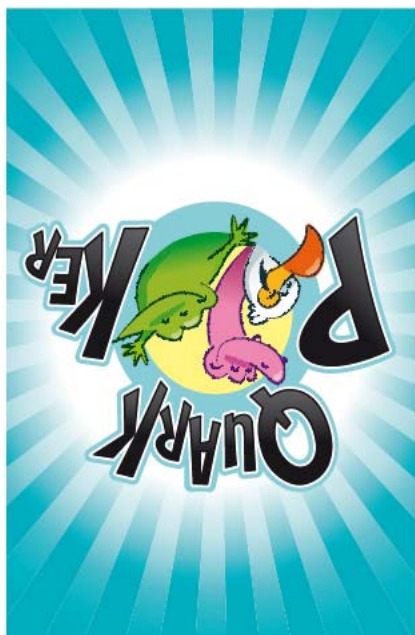
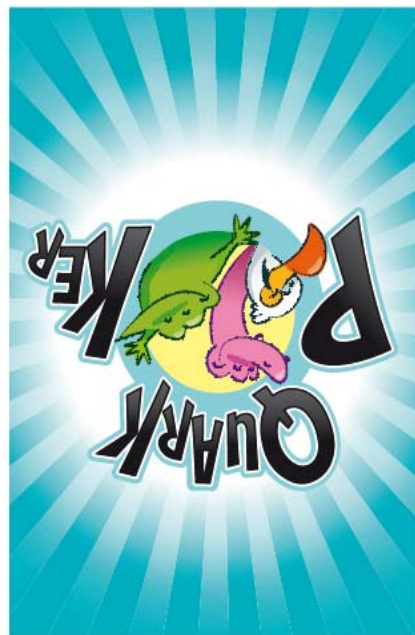
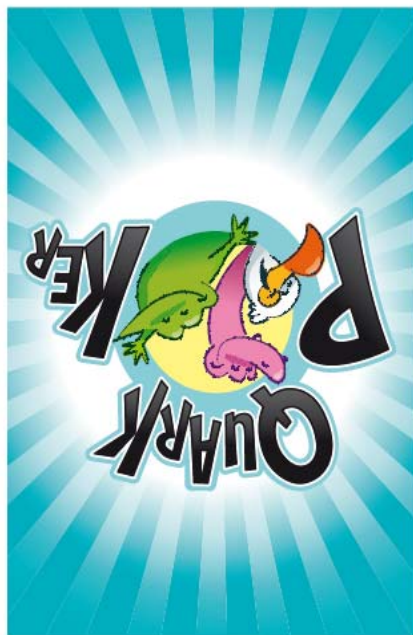
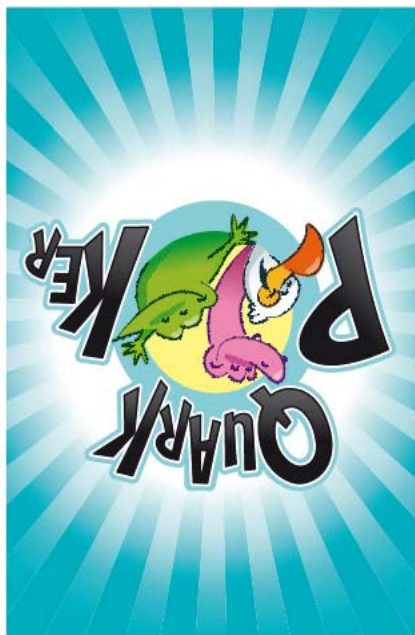
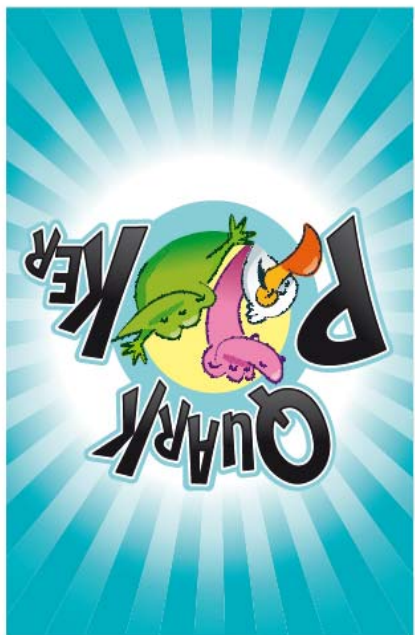
Tau

SUMO



$\text{GeV} = 1,7768$
 $\text{ns} = 0,000291$





W⁺

BOSON



 **GeV** = 80,4
 **ns** = 3 · 10⁻¹⁶



W⁻

BOSON

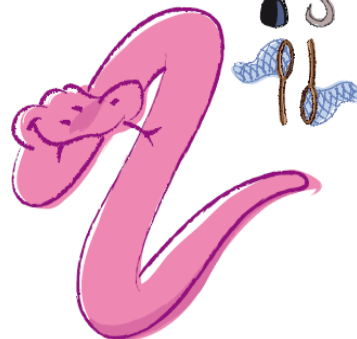


 **GeV** = 80,4
 **ns** = 3 · 10⁻¹⁶



Z⁰

BOSON

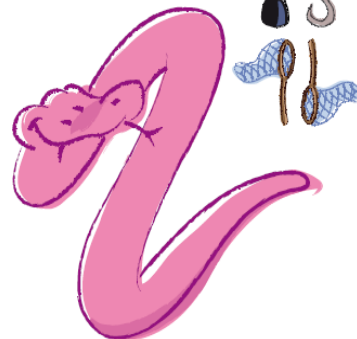


 **GeV** = 91,188
 **ns** = 3 · 10⁻¹⁶



Z⁰

BOSON



 **GeV** = 91,188
 **ns** = 3 · 10⁻¹⁶



Photon

BOSON

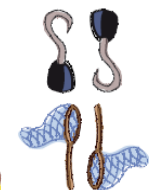


 **GeV** = 0
 = stable



Photon

BOSON



 **GeV** = 0
 = stable



Photon

BOSON



 **GeV** = 0
 = stable



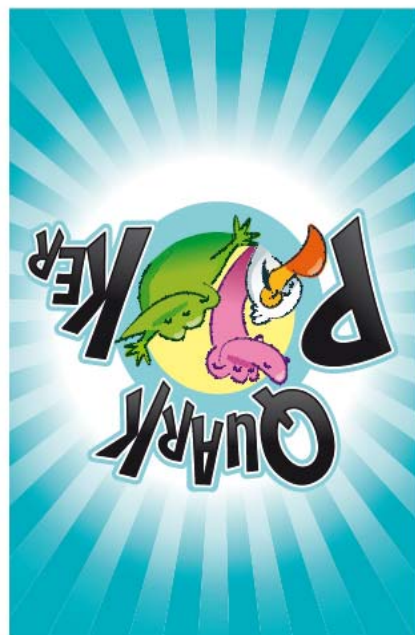
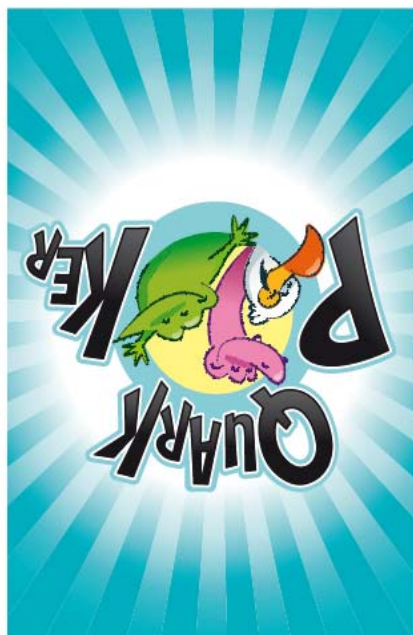
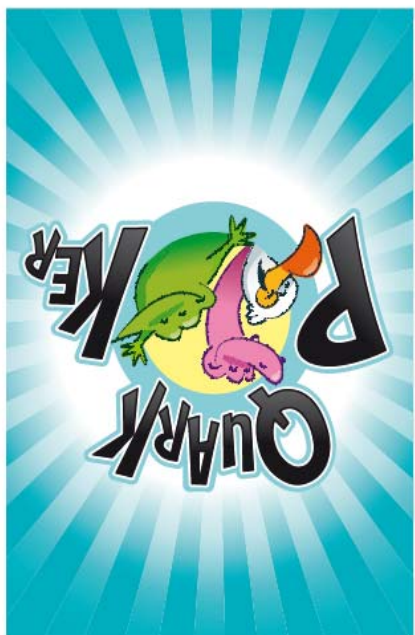
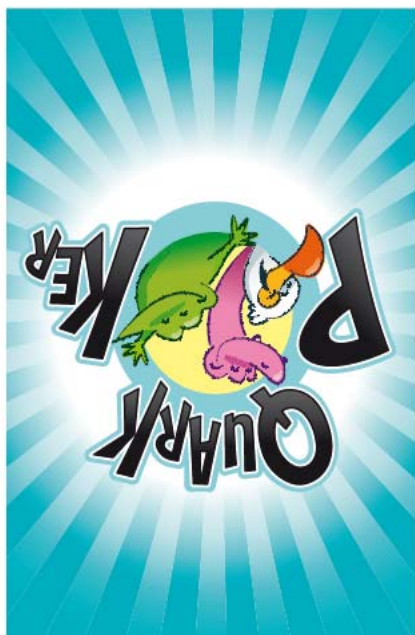
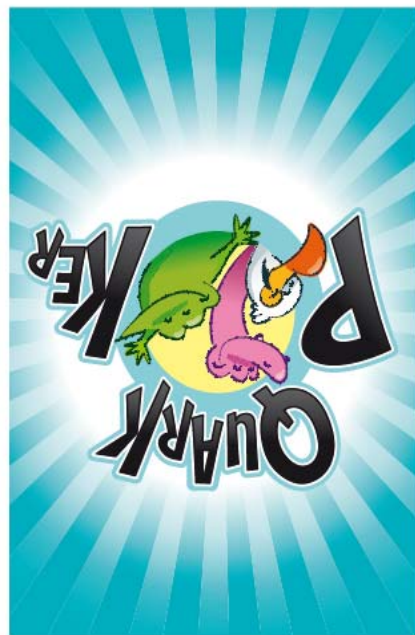
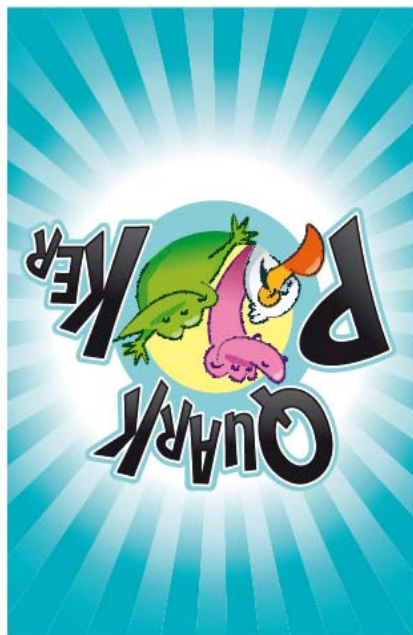
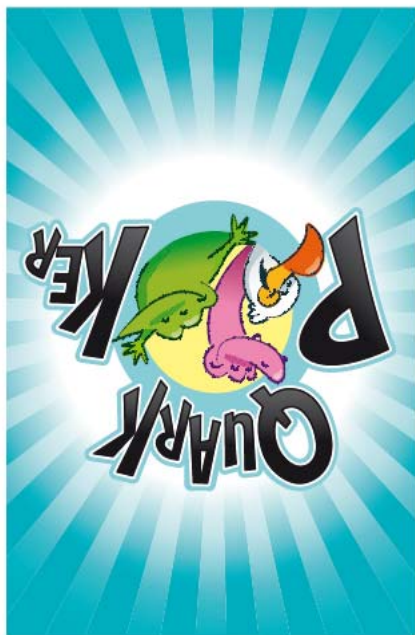
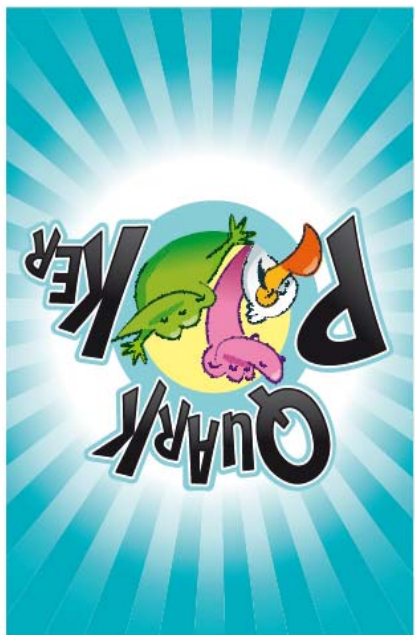
Higgs

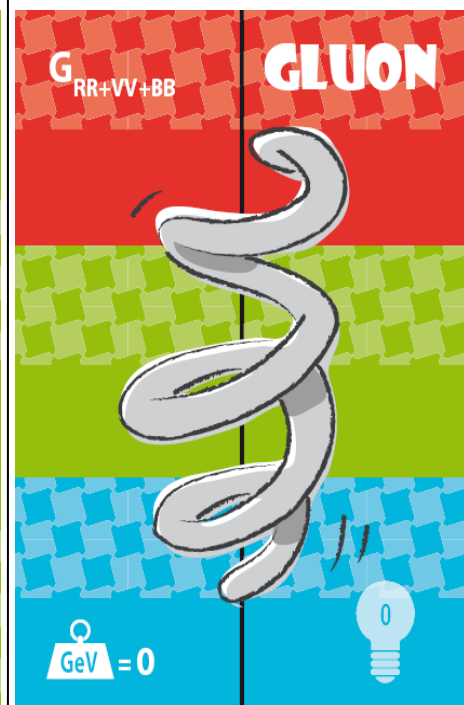
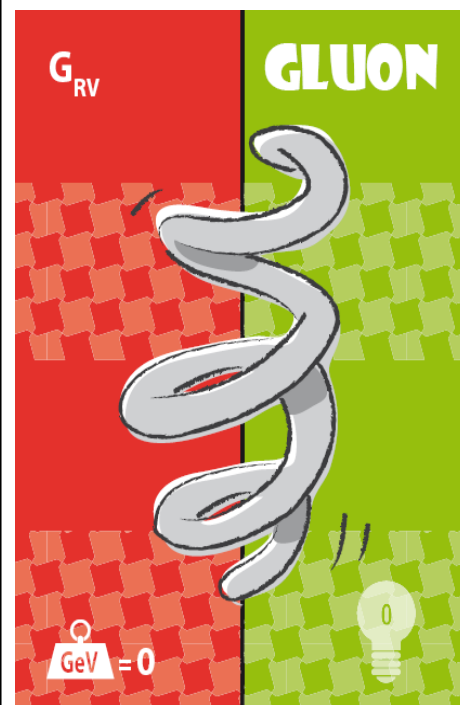
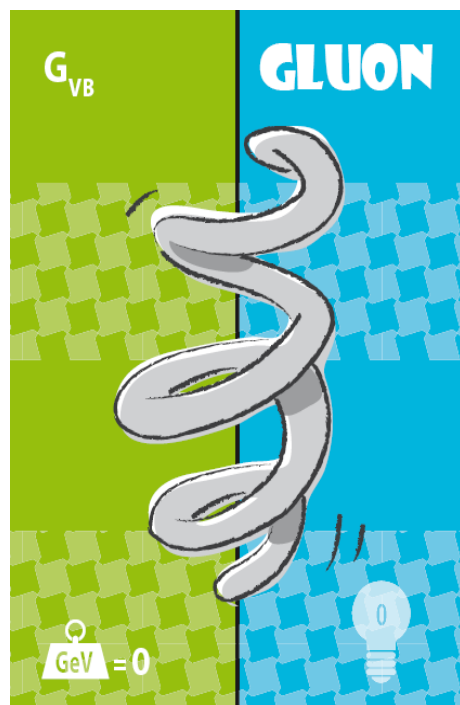
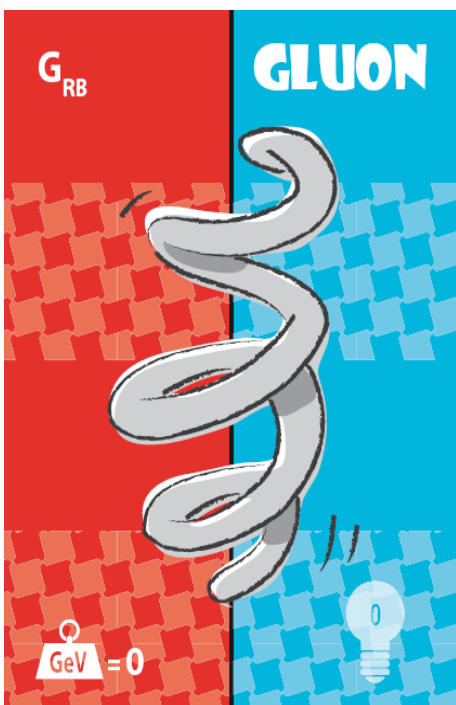
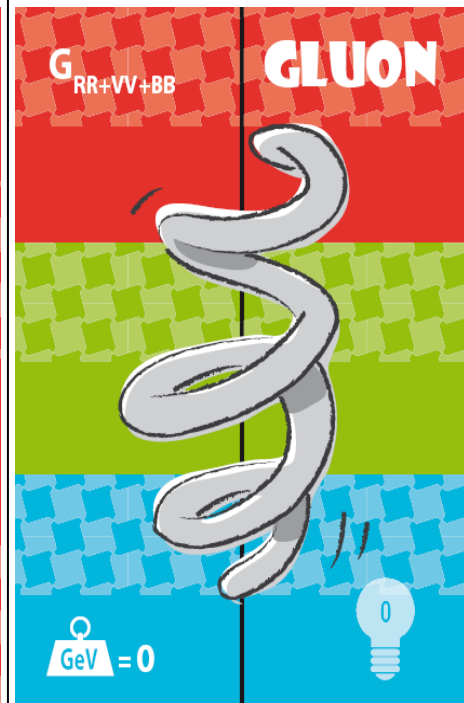
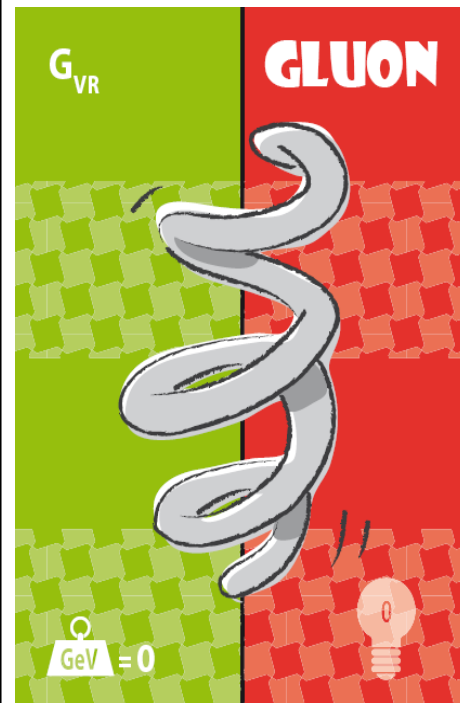
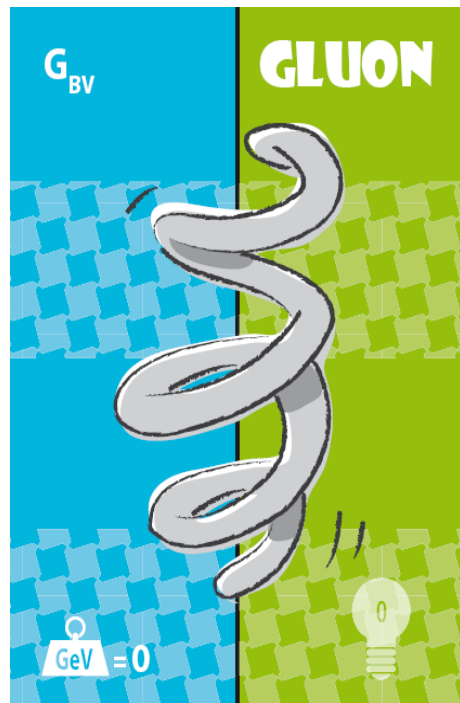
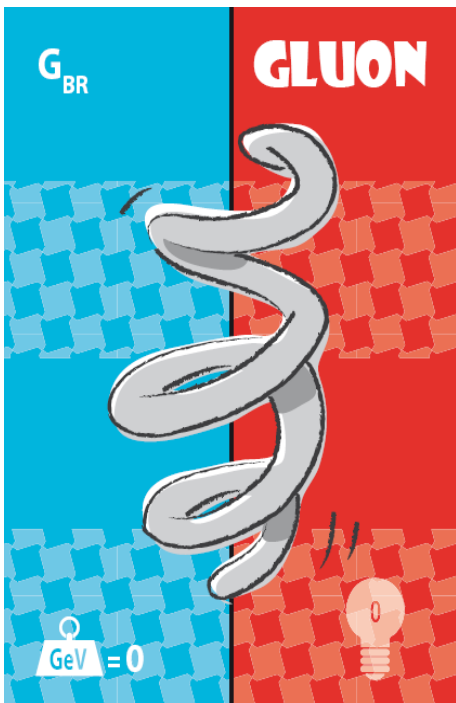
BOSON

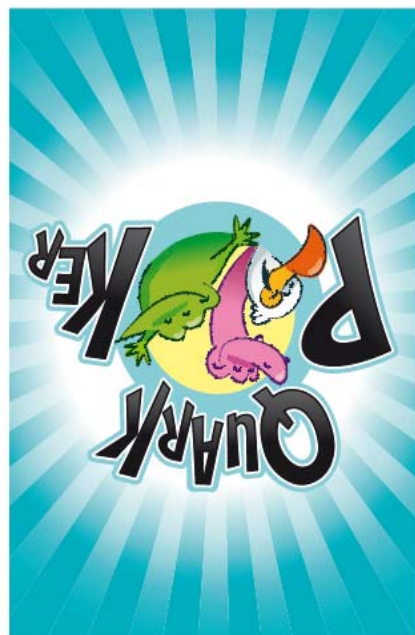
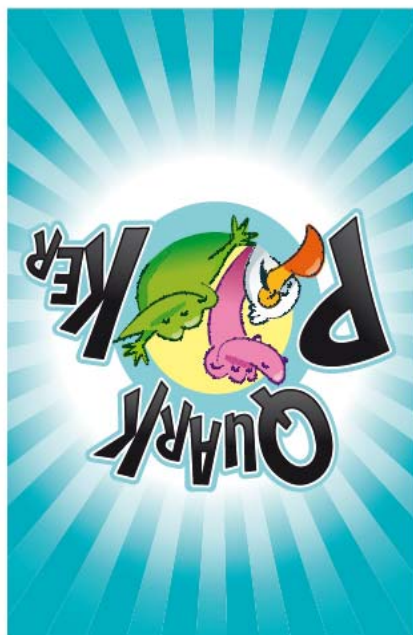
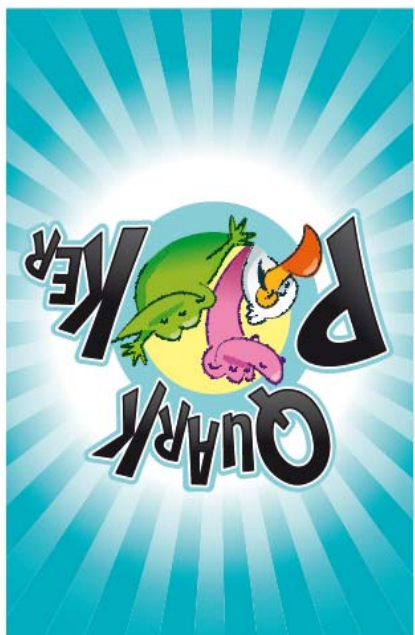
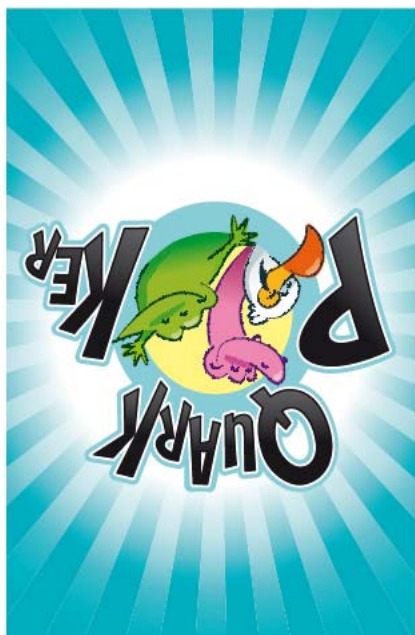
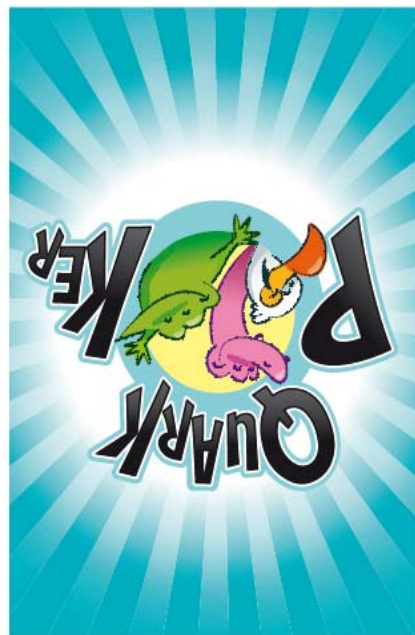
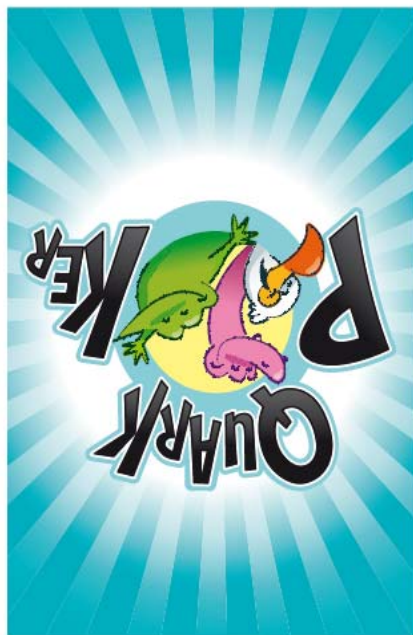
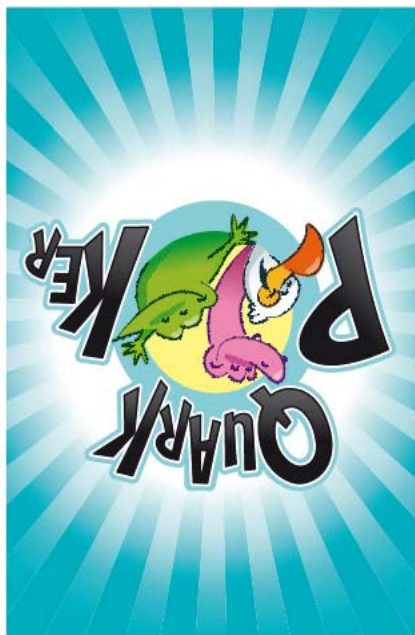
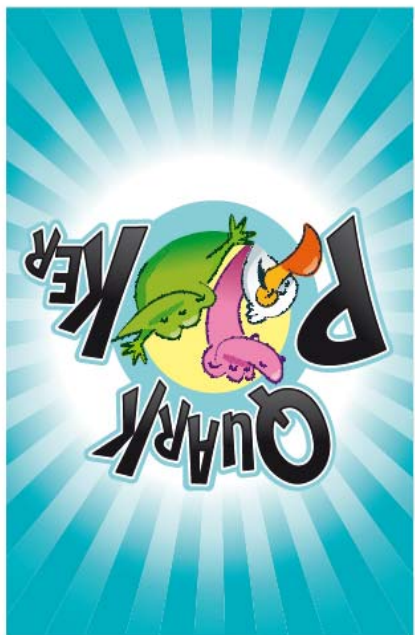


 **GeV** = 125
 = instable









Up
Anti

MEPLU



$\text{GeV} = 0,002$
= stable

$-2/3$

Up
Anti

MEPLU



$\text{GeV} = 0,002$
= stable

$-2/3$

Up
Anti

MEPLU



$\text{GeV} = 0,002$
= stable

$-2/3$

Neutrino
Électron
Anti

MEPLU



$\text{GeV} < 2 \cdot 10^{-10}$
= inconnue

0

Down
Anti

MEPLU



$\text{GeV} = 0,005$
= 10

$+1/3$

Down
Anti

MEPLU



$\text{GeV} = 0,005$
= 10

$+1/3$

Down
Anti

MEPLU



$\text{GeV} = 0,005$
= 10

$+1/3$

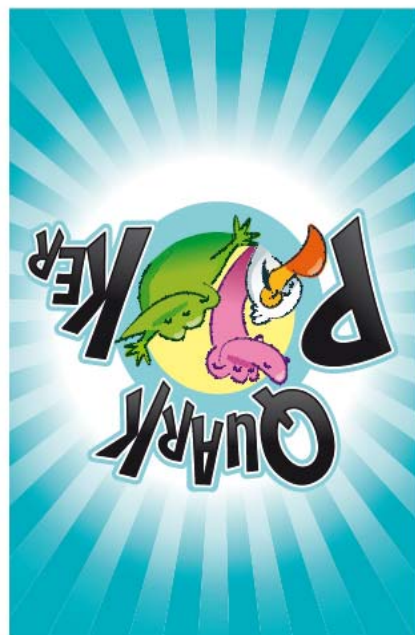
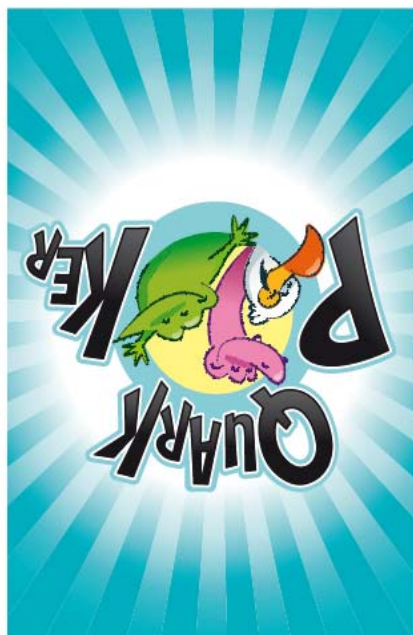
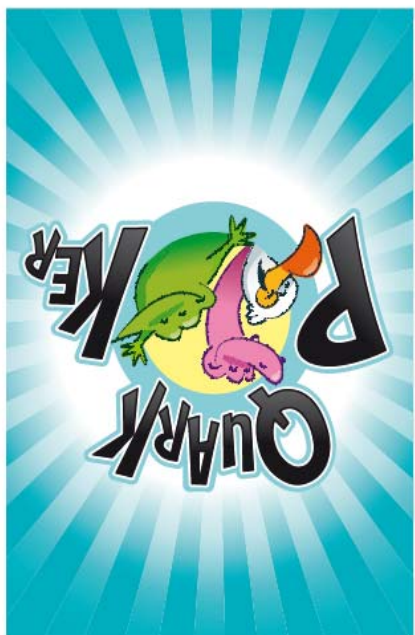
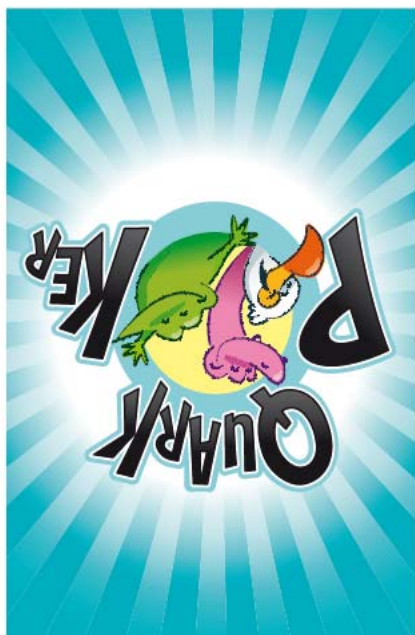
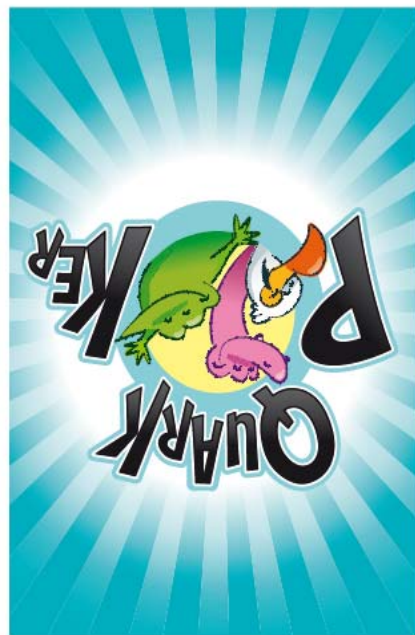
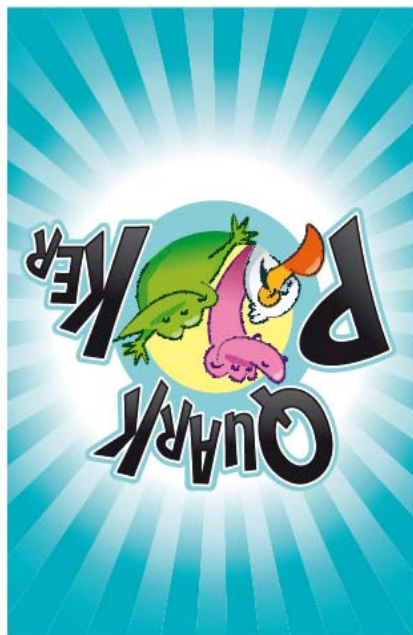
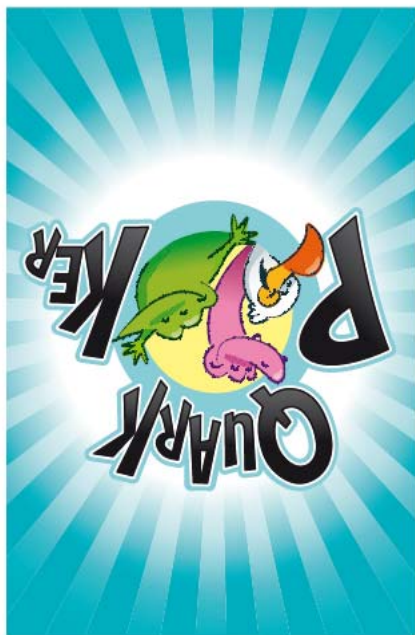
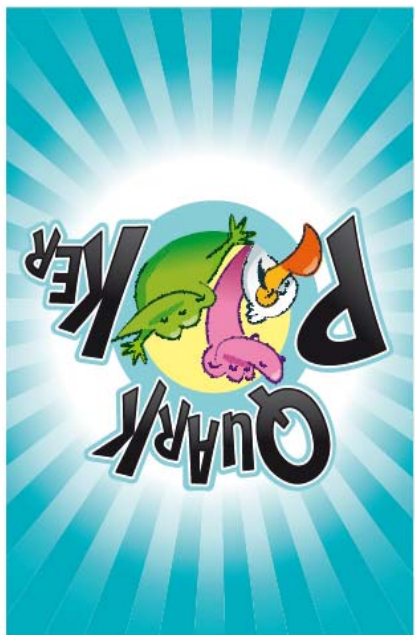
Électron
Anti

MEPLU



$\text{GeV} = 0,0005485799$
= stable

$+1$



Charme
Anti

SMADA




GeV = 1,3
ns = 0,001

-2/3

Charme
Anti

SMADA




GeV = 1,3
ns = 0,001

-2/3

Charme
Anti

SMADA




GeV = 1,3
ns = 0,001

-2/3

Neutrino
Muon
Anti

SMADA




GeV < 2 10⁻¹⁰
= inconnue

0

Étrange
Anti

SMADA




GeV = 0,1
ns = 0,1

+1/3

Étrange
Anti

SMADA




GeV = 0,1
ns = 0,1

+1/3

Étrange
Anti

SMADA




GeV = 0,1
ns = 0,1

+1/3

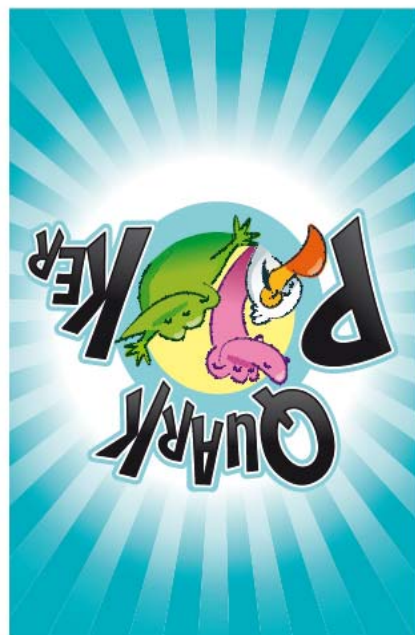
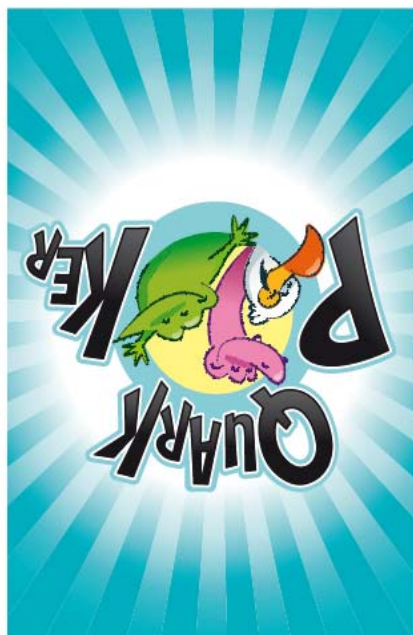
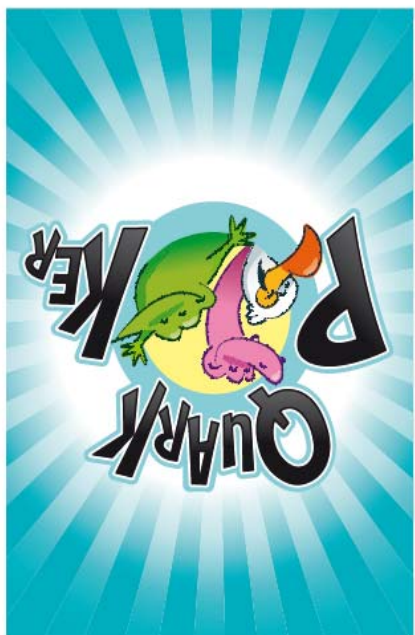
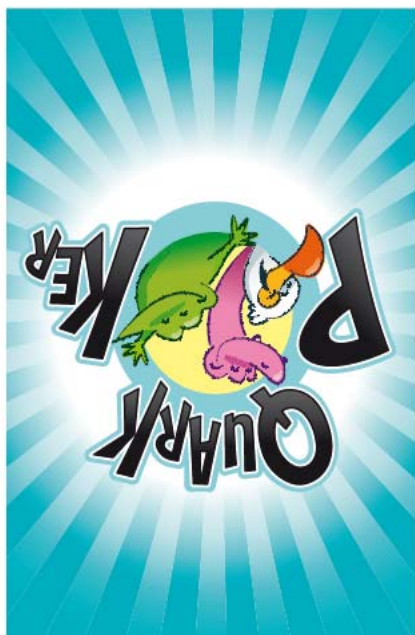
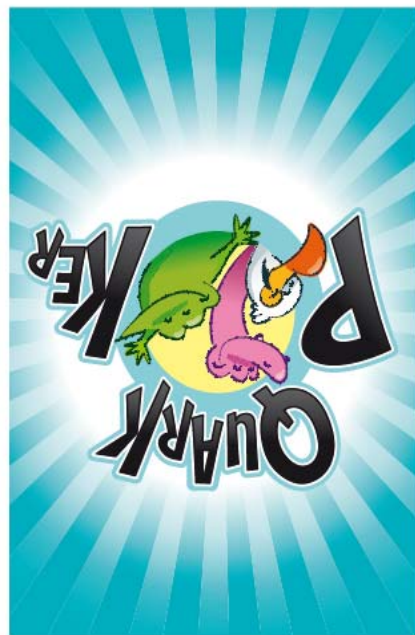
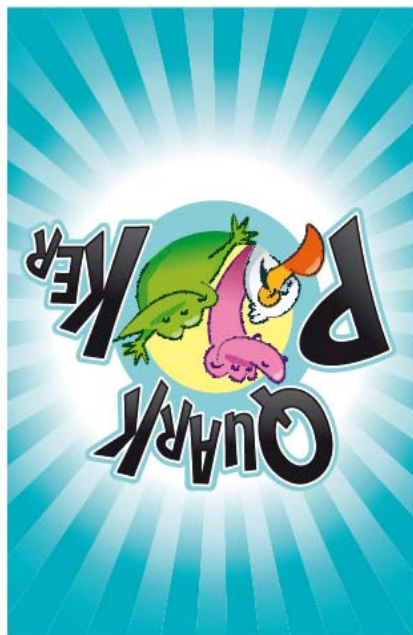
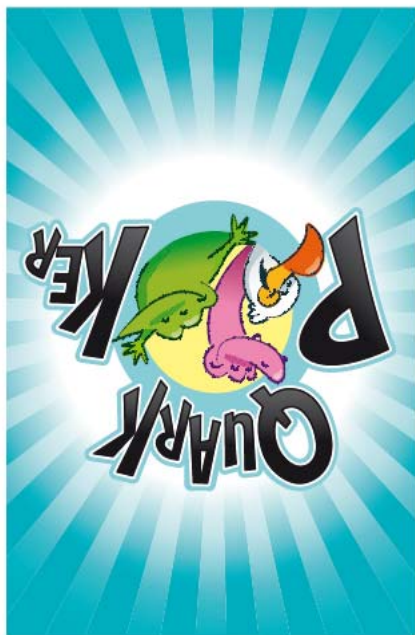
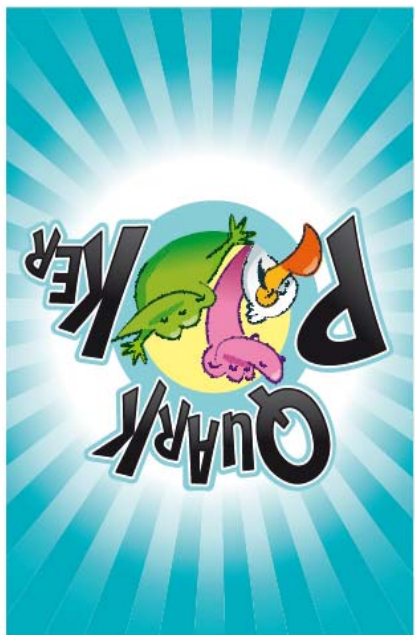
Muon
Anti

SMADA




GeV = 0,10565837
ns = 2197

+1



Top
Anti

OMUS



GeV = 173
ns = $3 \cdot 10^{-16}$

-2/3

Top
Anti

OMUS



GeV = 173
ns = $3 \cdot 10^{-16}$

-2/3

Top
Anti

OMUS



GeV = 173
ns = $3 \cdot 10^{-16}$

-2/3

Neutrino
Tau
Anti

OMUS



GeV < $2 \cdot 10^{-10}$
= inconnue

0

Beauté
Anti

OMUS



GeV = 4,2
ns = 0,0015

+1/3

Beauté
Anti

OMUS



GeV = 4,2
ns = 0,0015

+1/3

Beauté
Anti

OMUS



GeV = 4,2
ns = 0,0015

+1/3

Tau
Anti

OMUS



GeV = 1,7768
ns = 0,000291

+1

