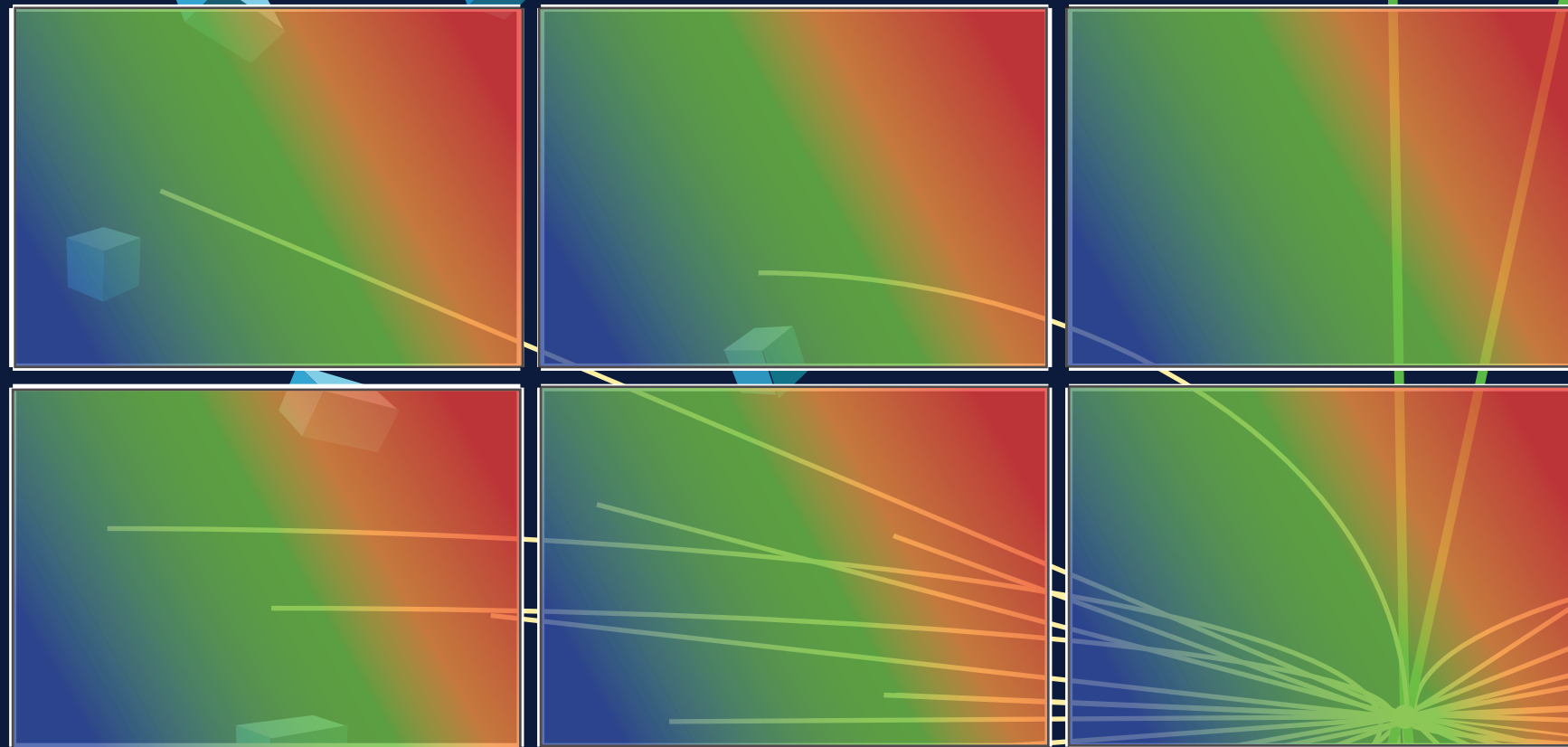
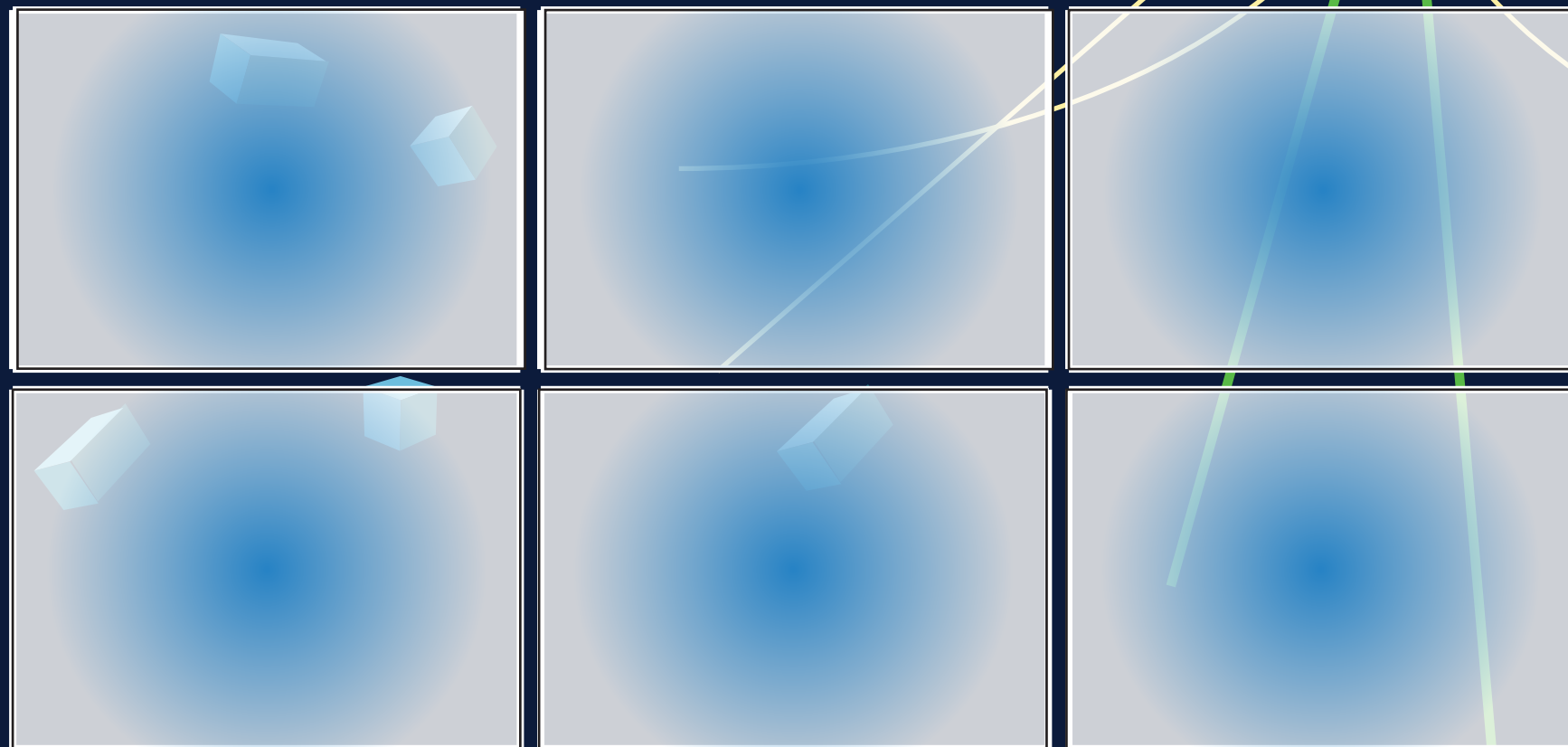


Quarks



Leptons

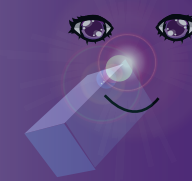


Bosons

Photon

Electric Charge: 0
Spin: 1
Mass: 0.0 eV
Mean Lifetime: Stable

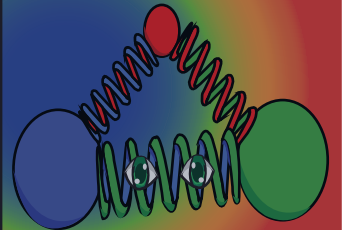
Colour Charge: No
Exchange boson (1 point)



Gluon

Electric Charge: 0
Spin: 1
Mass: 0.0 eV
Mean Lifetime: Stable

Colour Charge: Yes
Exchange boson (1 point)



W⁻ Boson

Electric Charge: -1
Spin: 1
Mass: 80.4 GeV
Mean Lifetime: 3×10^{-25} s

Colour Charge: No
Exchange boson (1 points)



W⁺ Boson

Electric Charge: +1
Spin: 1
Mass: 80.4 GeV
Mean Lifetime: 3×10^{-25} s

Colour Charge: No
Exchange boson (1 points)



Z Boson

Electric Charge: 0
Spin: 1
Mass: 91.2 GeV
Mean Lifetime: 2.6×10^{-25} s

Colour Charge: No
Exchange boson (1 points)

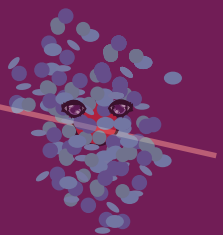


Higgs Boson

Electric Charge: 0
Spin: 0
Mass: 125 GeV
Mean Lifetime: $\sim 10^{-22}$ s

Colour Charge: No
(5 points)

The Higgs Boson is an excitation of the Higgs field which gives particles their mass.



Place Annihilated Cards Here



Online version of game available at this link (to the left):
<https://particle-builder.anu.edu.au/>

Free printable version of particle builder available at this
link (QR to the right): <https://zenodo.org/records/3594204>

