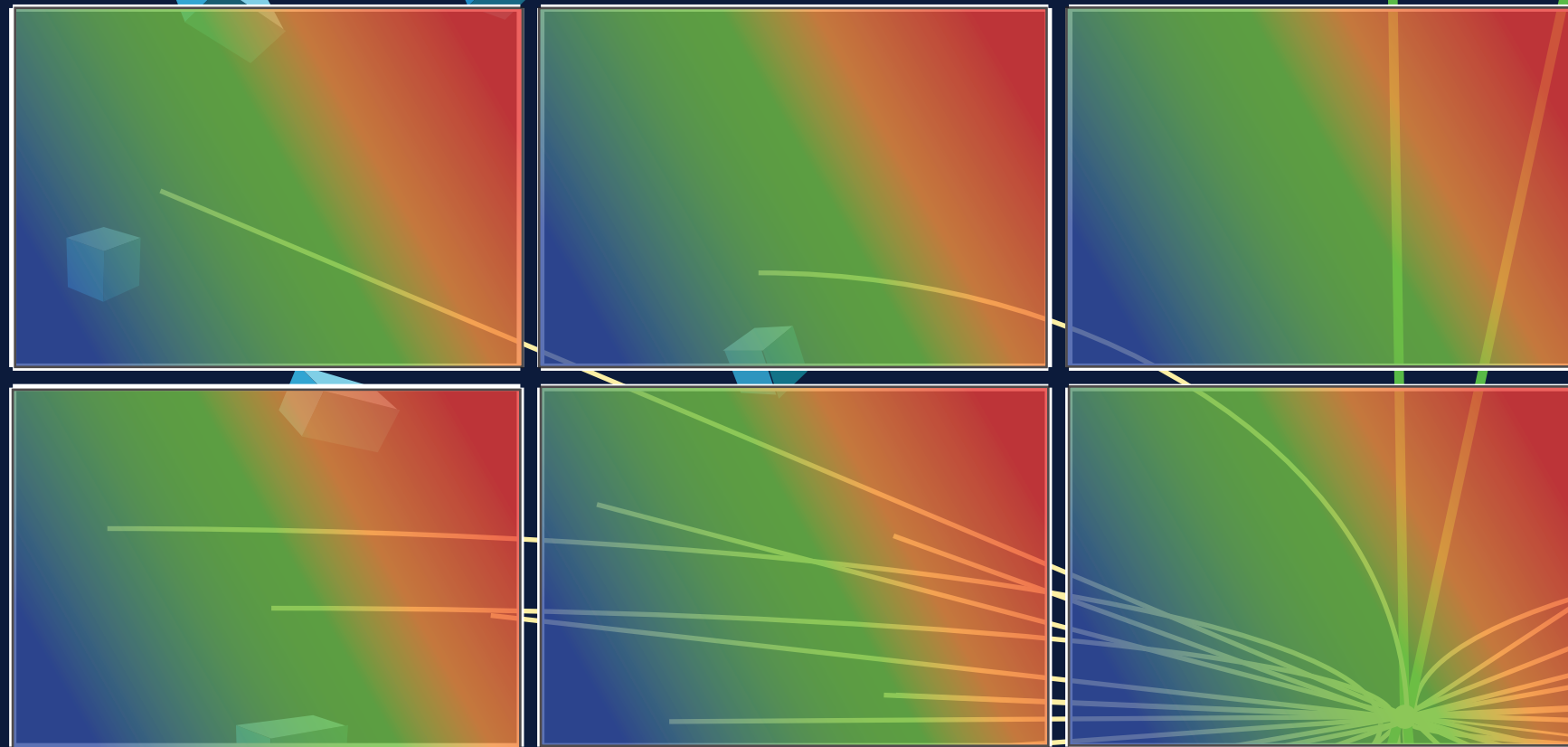
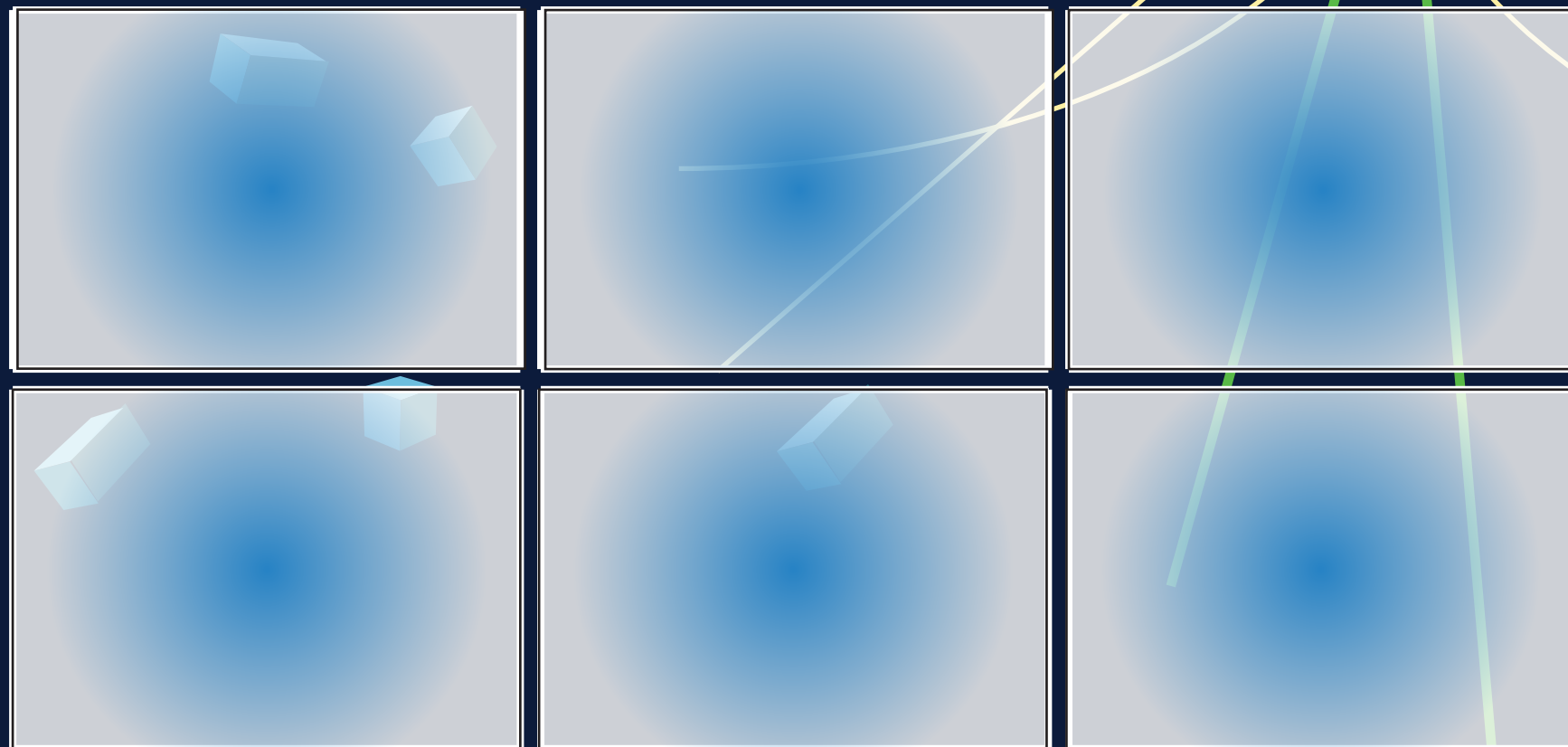


# Quarks



# Leptons

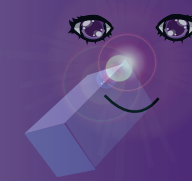


# Bosons

## Photon

Electric Charge: 0  
Spin: 1  
Mass: 0.0 eV  
Half Life: Stable

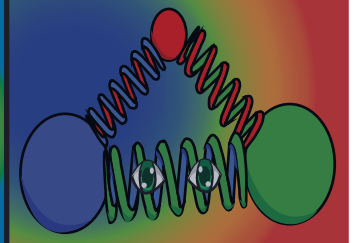
Colour Charge: No  
Exchange boson (1 point)  
Note: the photon is its own antiparticle.



## Gluon

Electric Charge: 0  
Spin: 1  
Mass: 0.0 eV  
Half Life: Stable

Colour Charge: Yes  
Exchange boson (1 point)



## W<sup>-</sup> Boson

Electric Charge: -1  
Spin: 1  
Mass: 80.4 GeV  
Half Life:  $3 \times 10^{-25}$ s

Colour Charge: No  
Exchange boson (1 points)



## W<sup>+</sup> Boson

Electric Charge: +1  
Spin: 1  
Mass: 80.4 GeV  
Half Life:  $3 \times 10^{-25}$ s

Colour Charge: No  
Exchange boson (1 points)



## Z Boson

Electric Charge: 0  
Spin: 1  
Mass: 91.2 GeV  
Half Life:  $3 \times 10^{-25}$ s

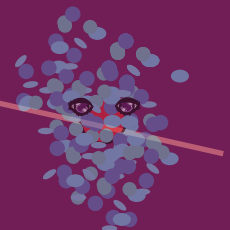
Colour Charge: No  
Exchange boson (1 points)  
Note: the Z boson is its own antiparticle.



## Higgs Boson

Electric Charge: 0  
Spin: 0  
Mass: 126 GeV  
Half Life:  $\sim 10^{-22}$ 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



Game available online for free here:  
<https://doi.org/10.5281/zenodo.1341746>