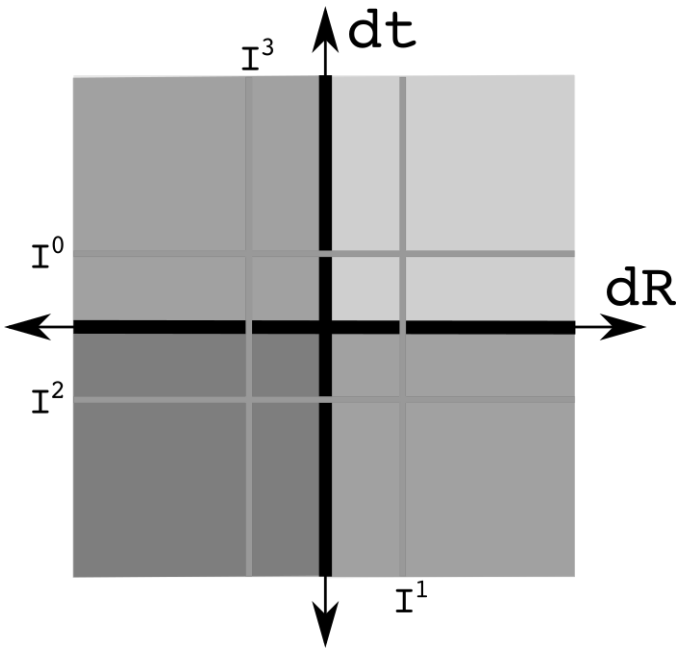
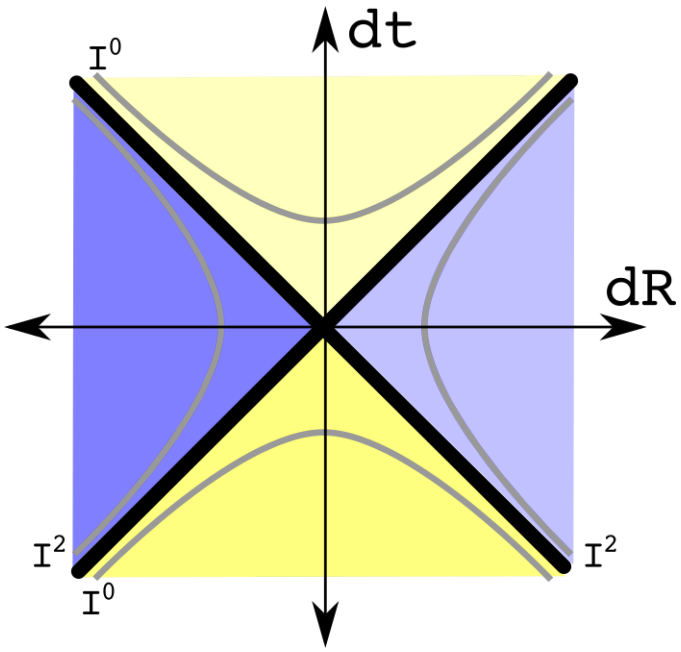
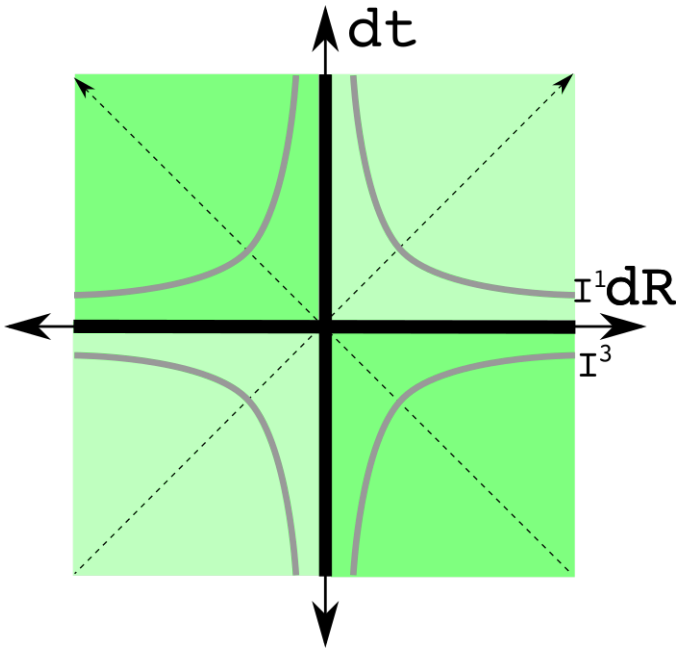


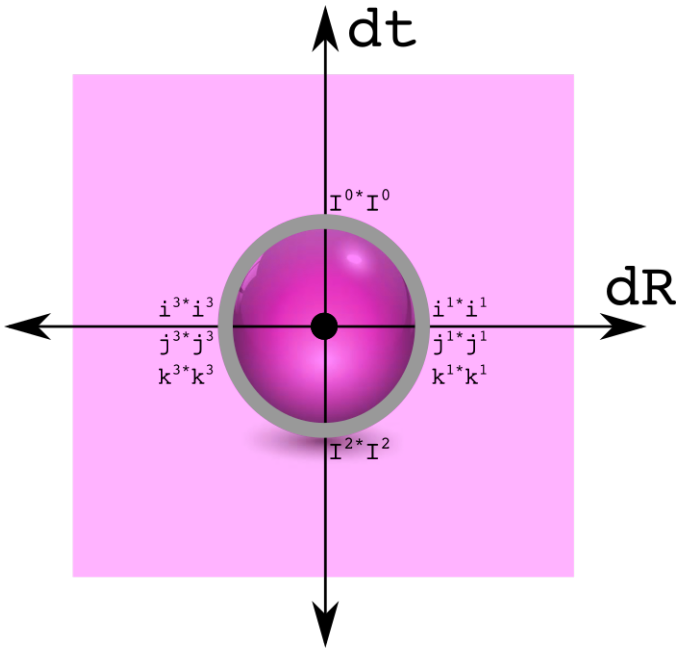
Classical



Fast Physics



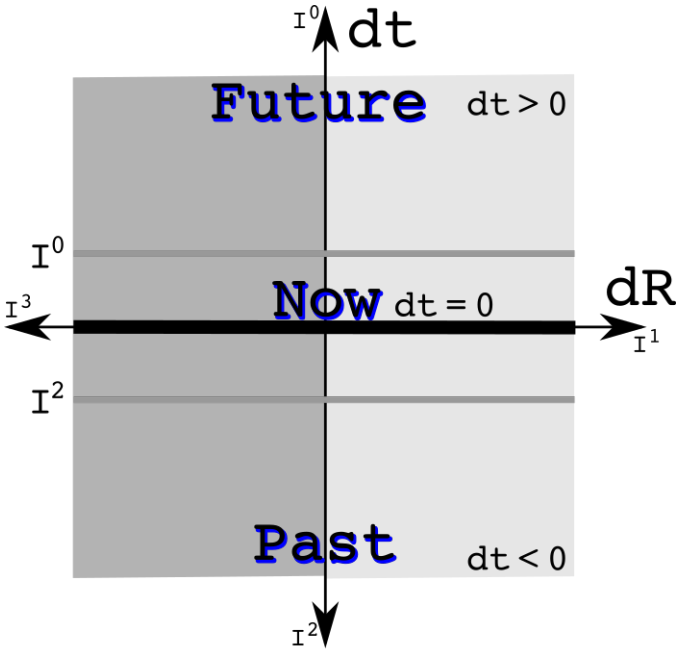
Gravity



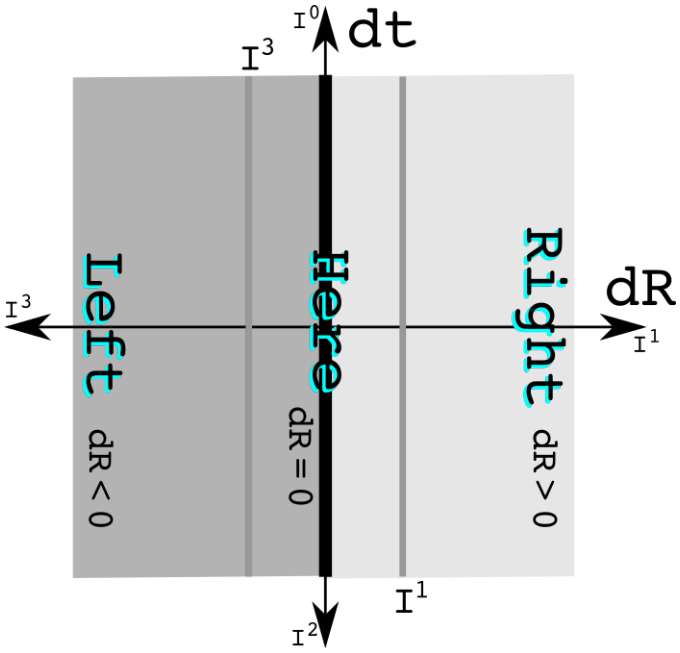
Light +

Space-time Geometries

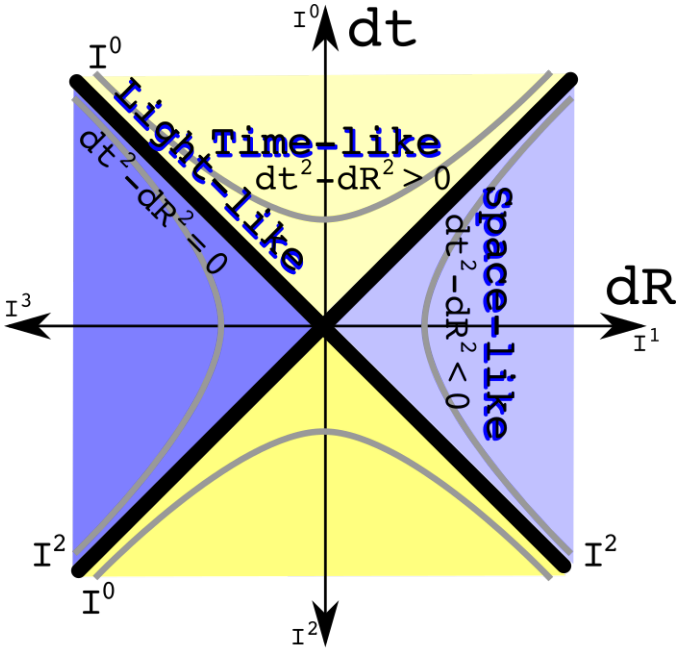
Space-Time Equivalence Classes



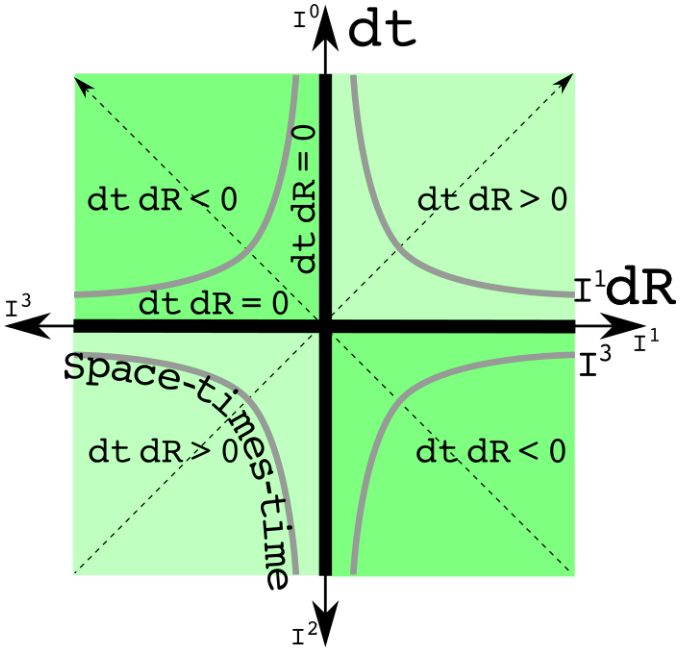
Time
dt



Space
dR

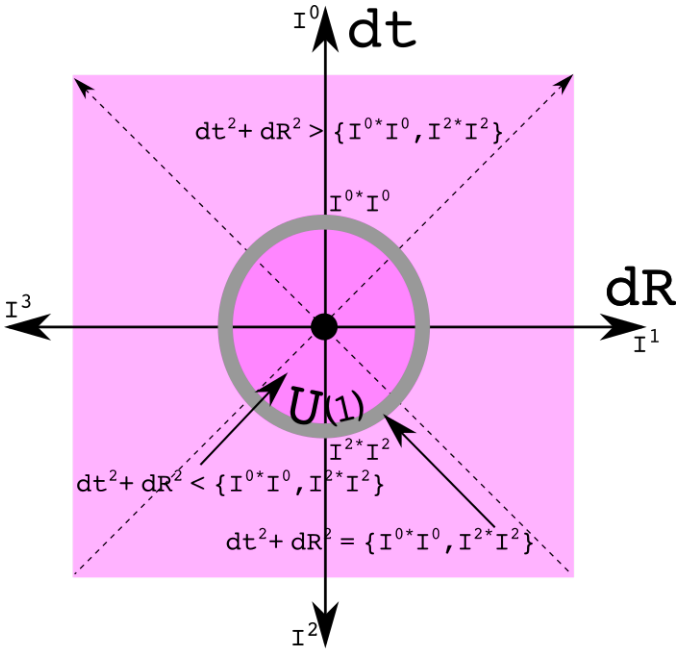


Causality
$dt^2 - dR^2$

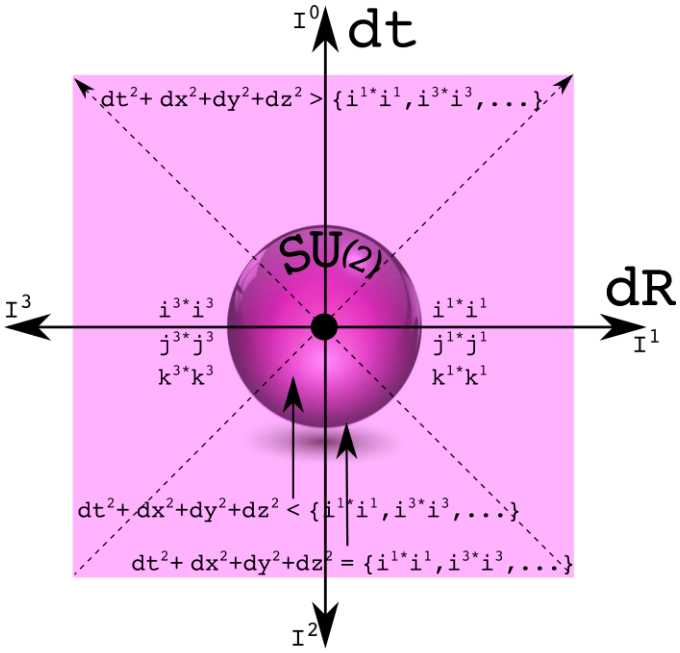


Gravity
dt dR

Space-Time Equivalence Classes

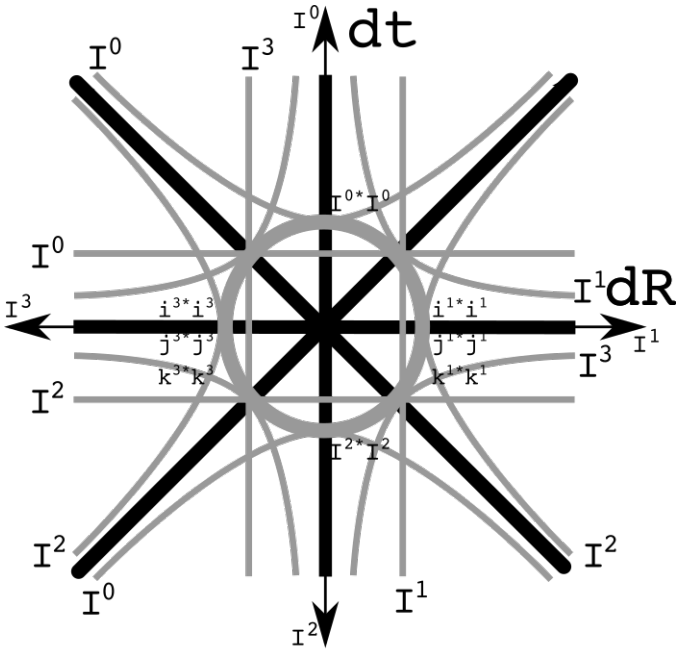


Light U(1)
dt^2+dR^2

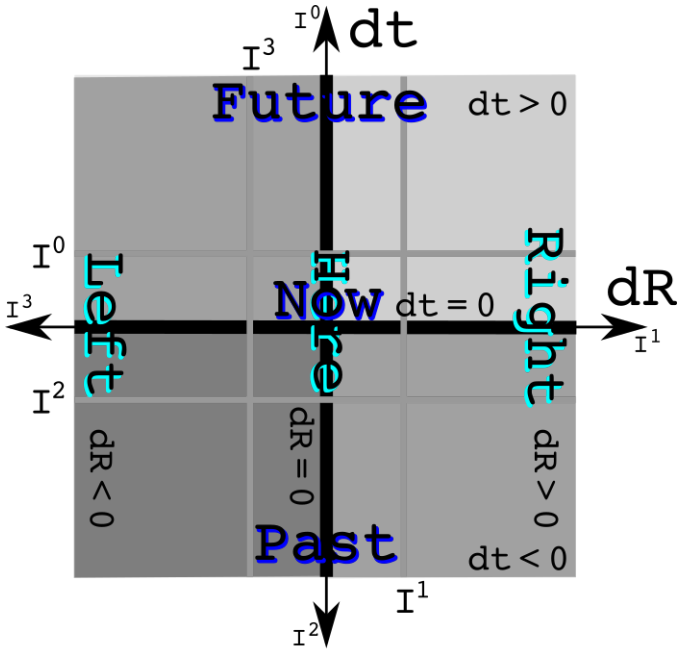


Weak Force SU(2)
$dt^2+dx^2+dy^2+dz^2$

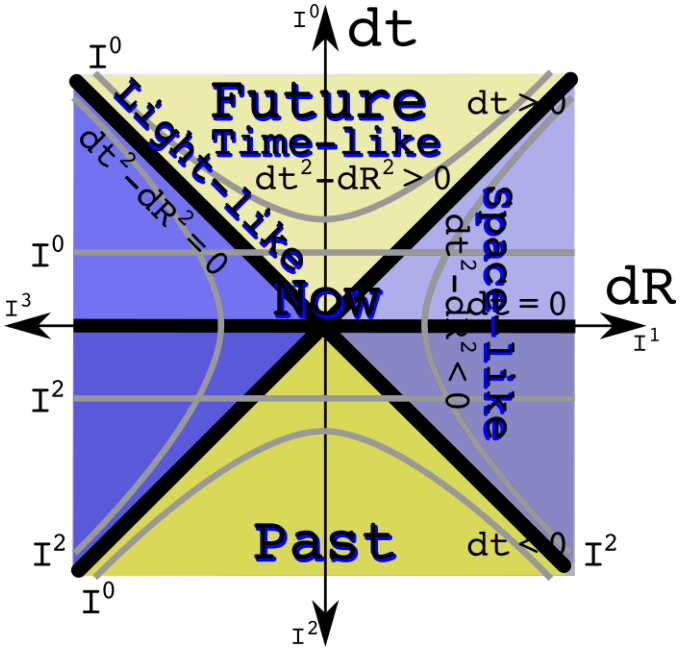
Overlapping Equivalence Classes



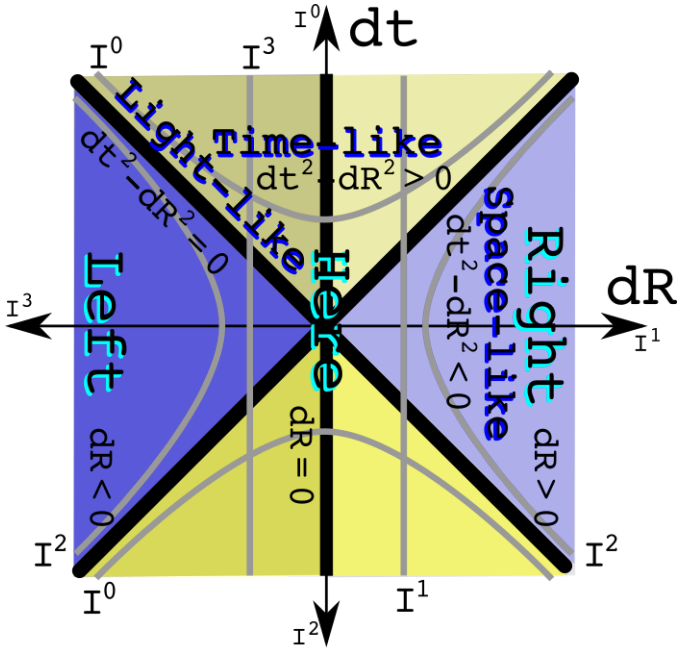
All
0's and 1's



Space + Time
dR + dt

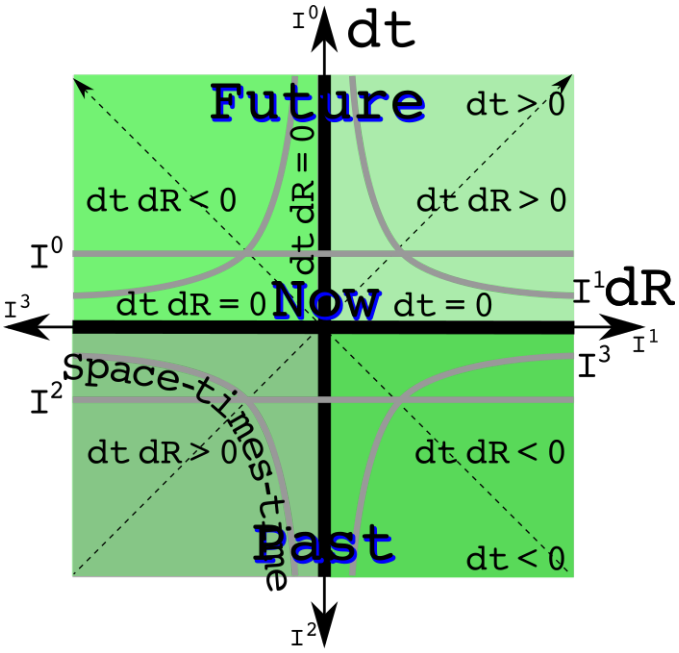


Two-tone
Space-like

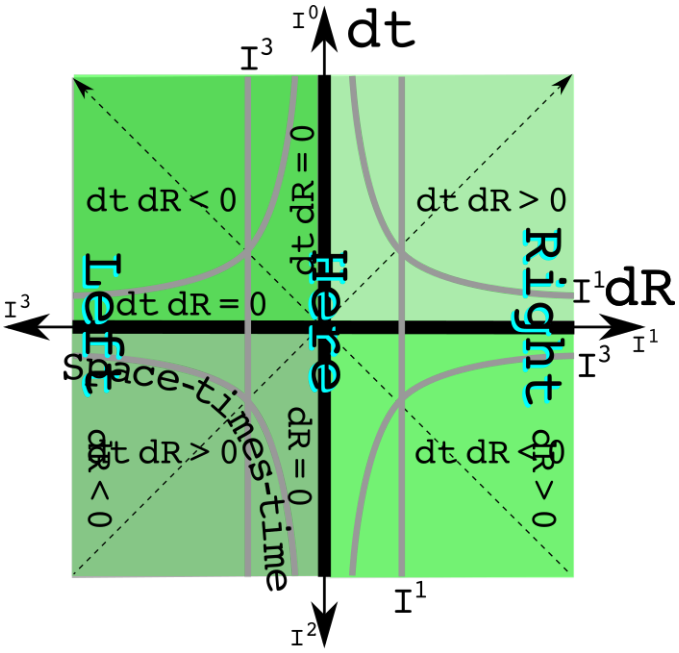


Two-tone
Time-like

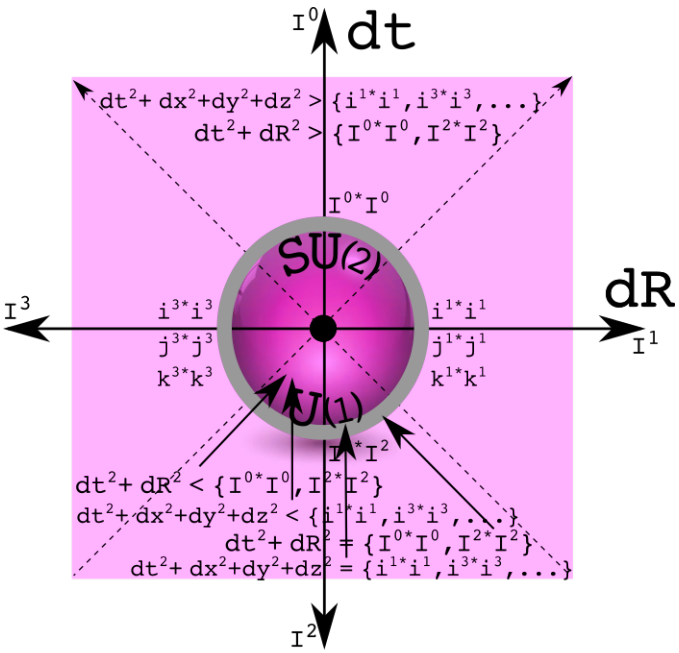
Overlapping Equivalence Classes



Gravity monotone



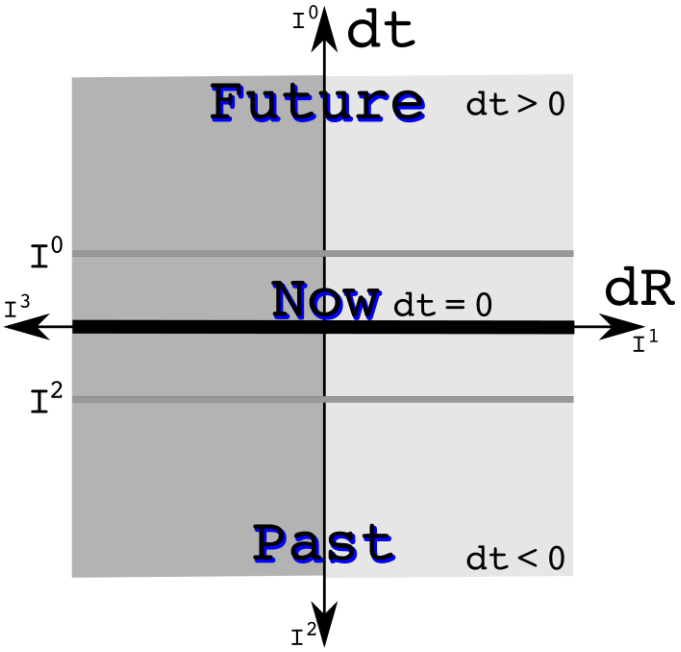
Gravity monotone

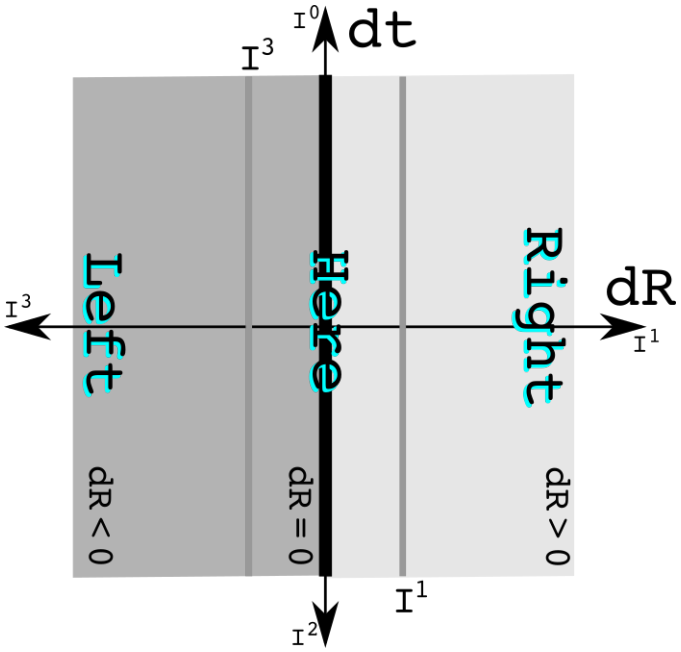


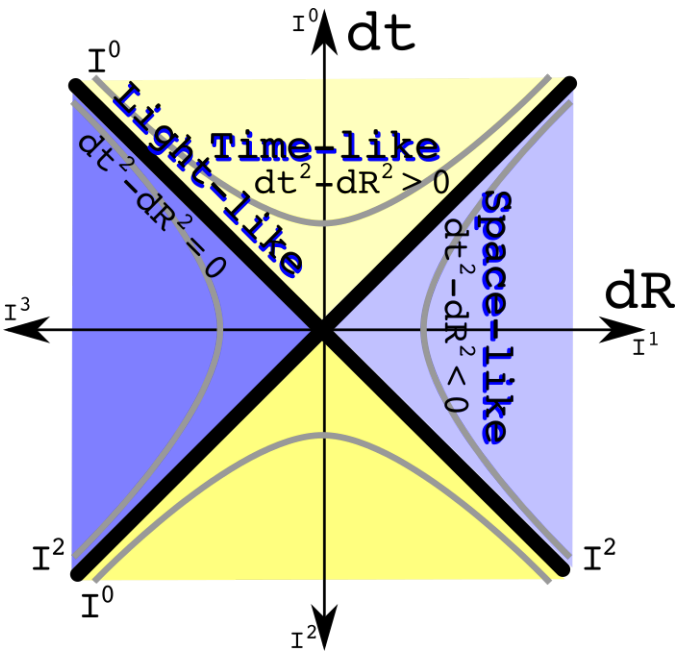
Electro-weak

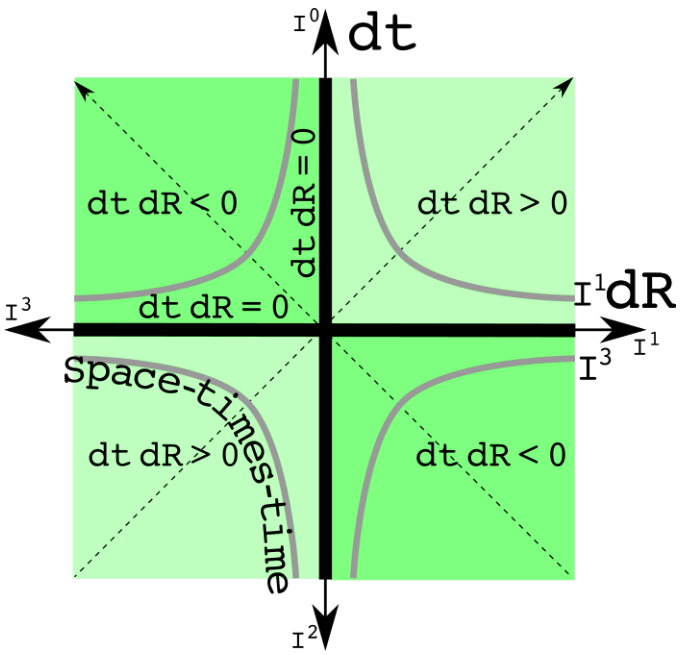
$dt^2 + (dx^2 + dy^2 + dz^2)$

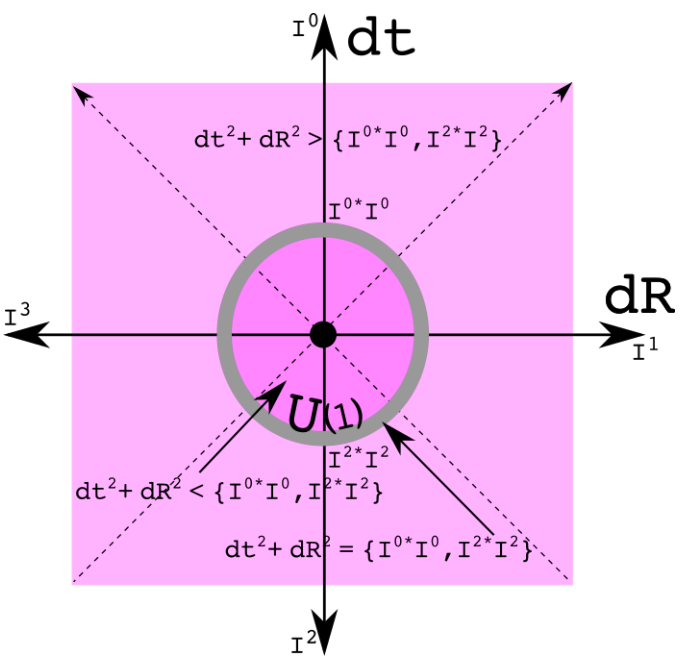
Space-Time Equivalence Classes

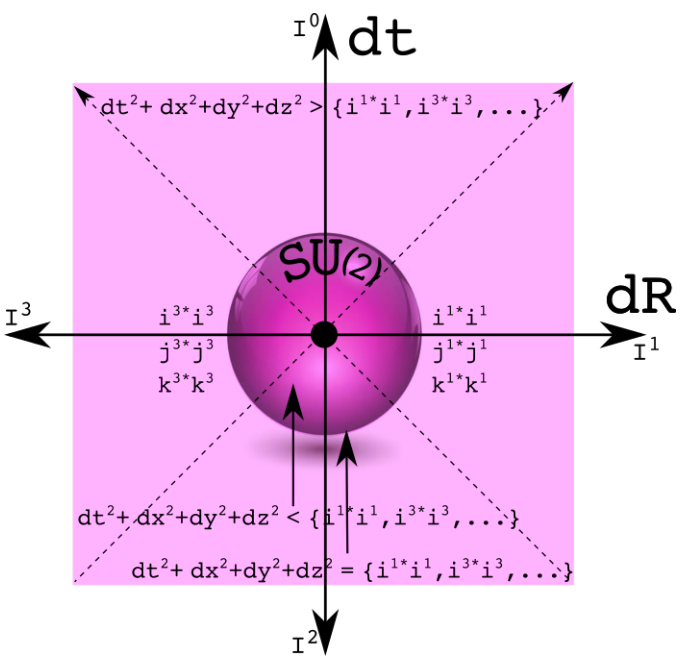
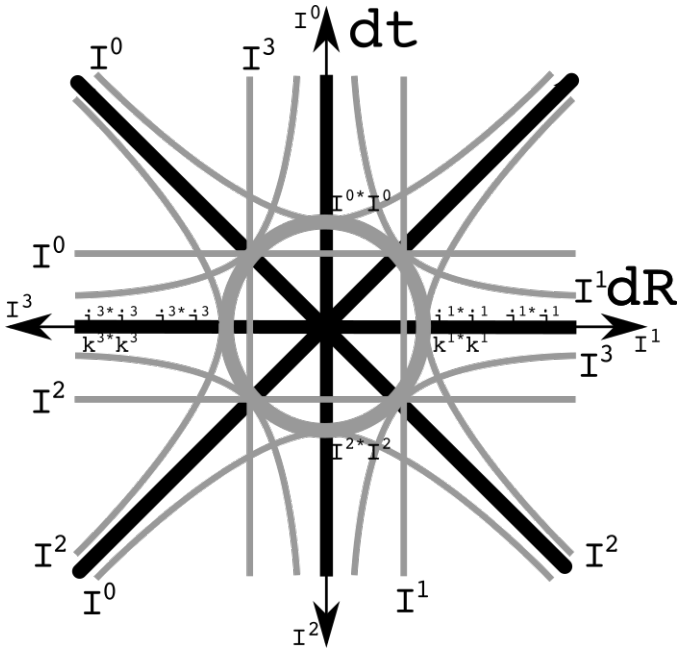
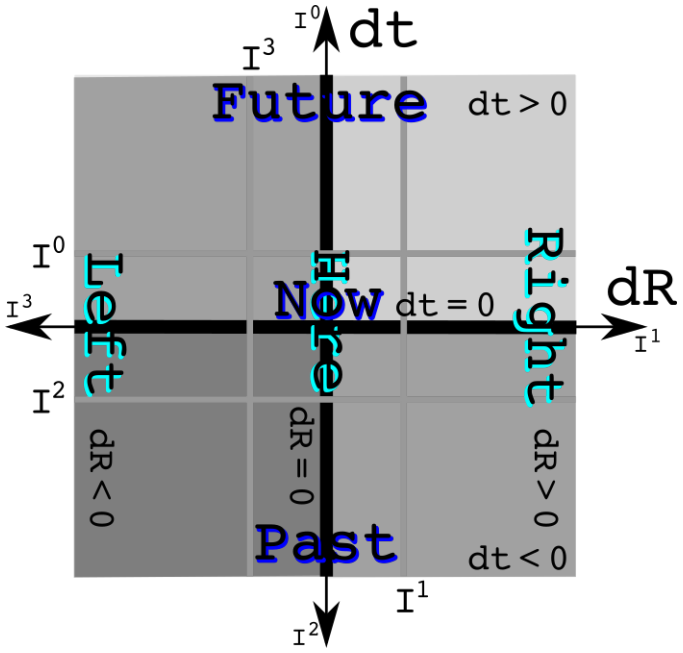
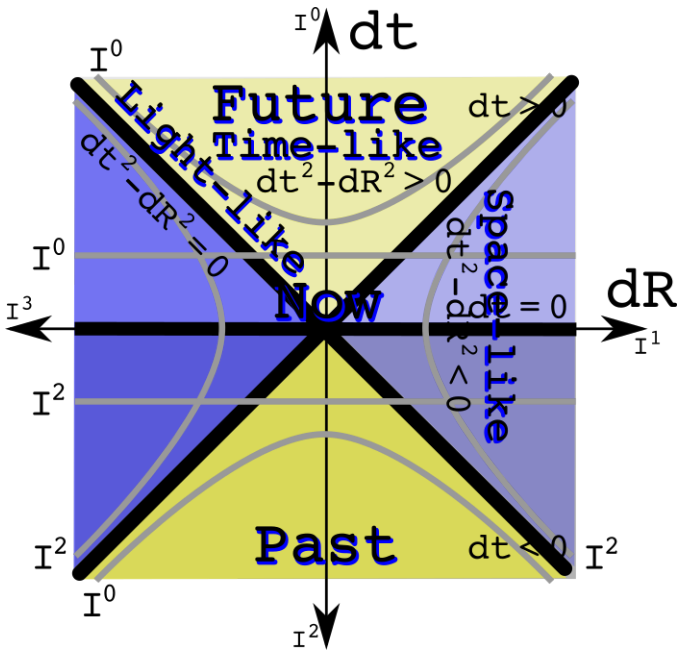
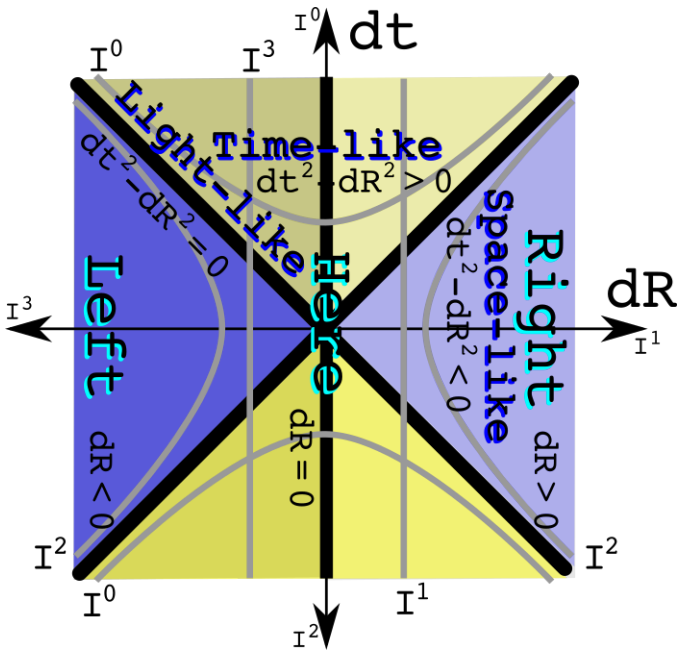
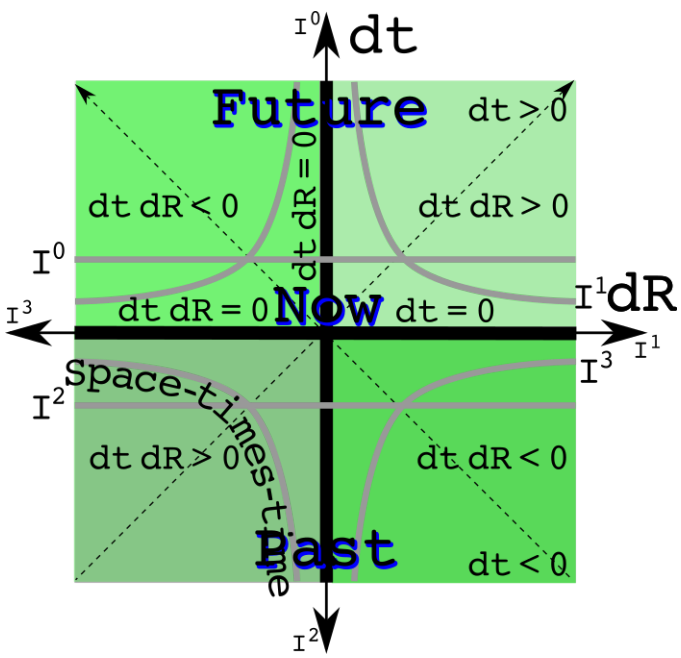
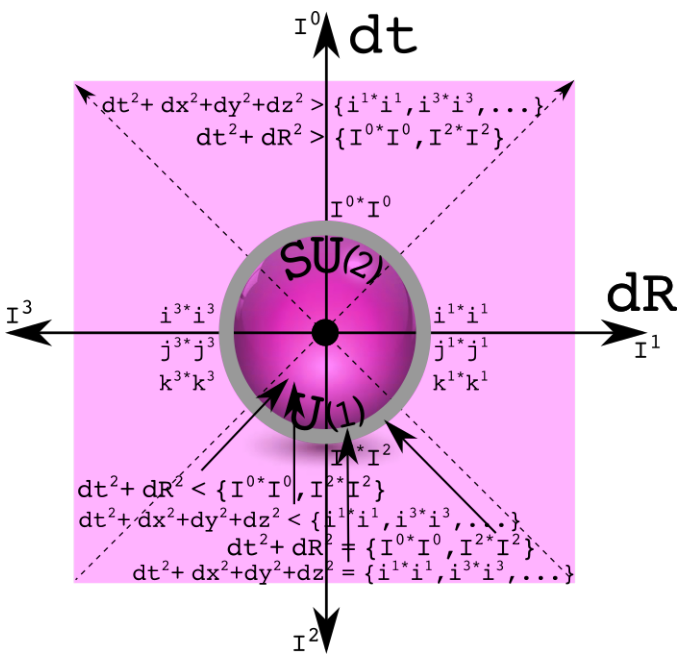












Overlapping Equivalence Classes