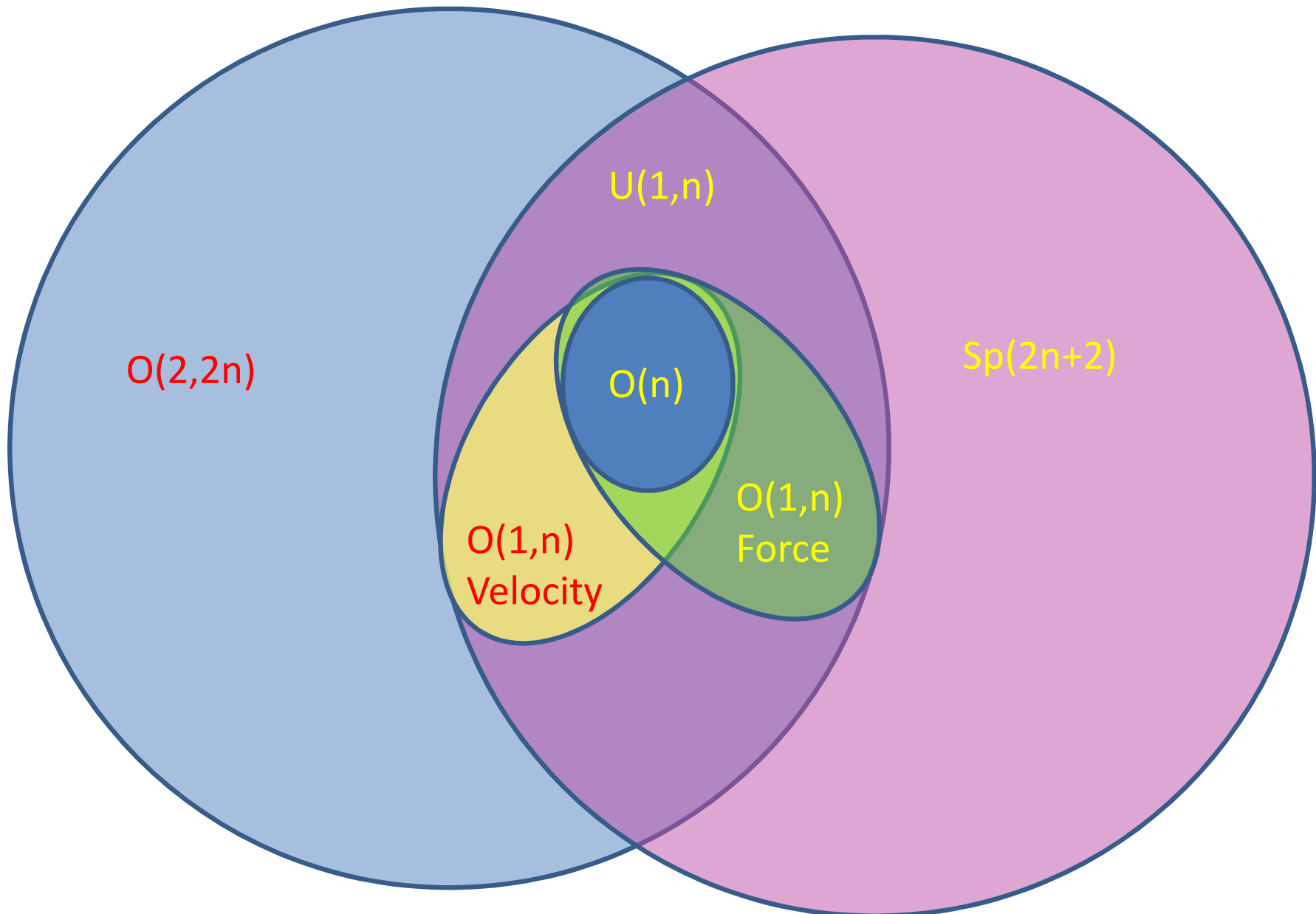


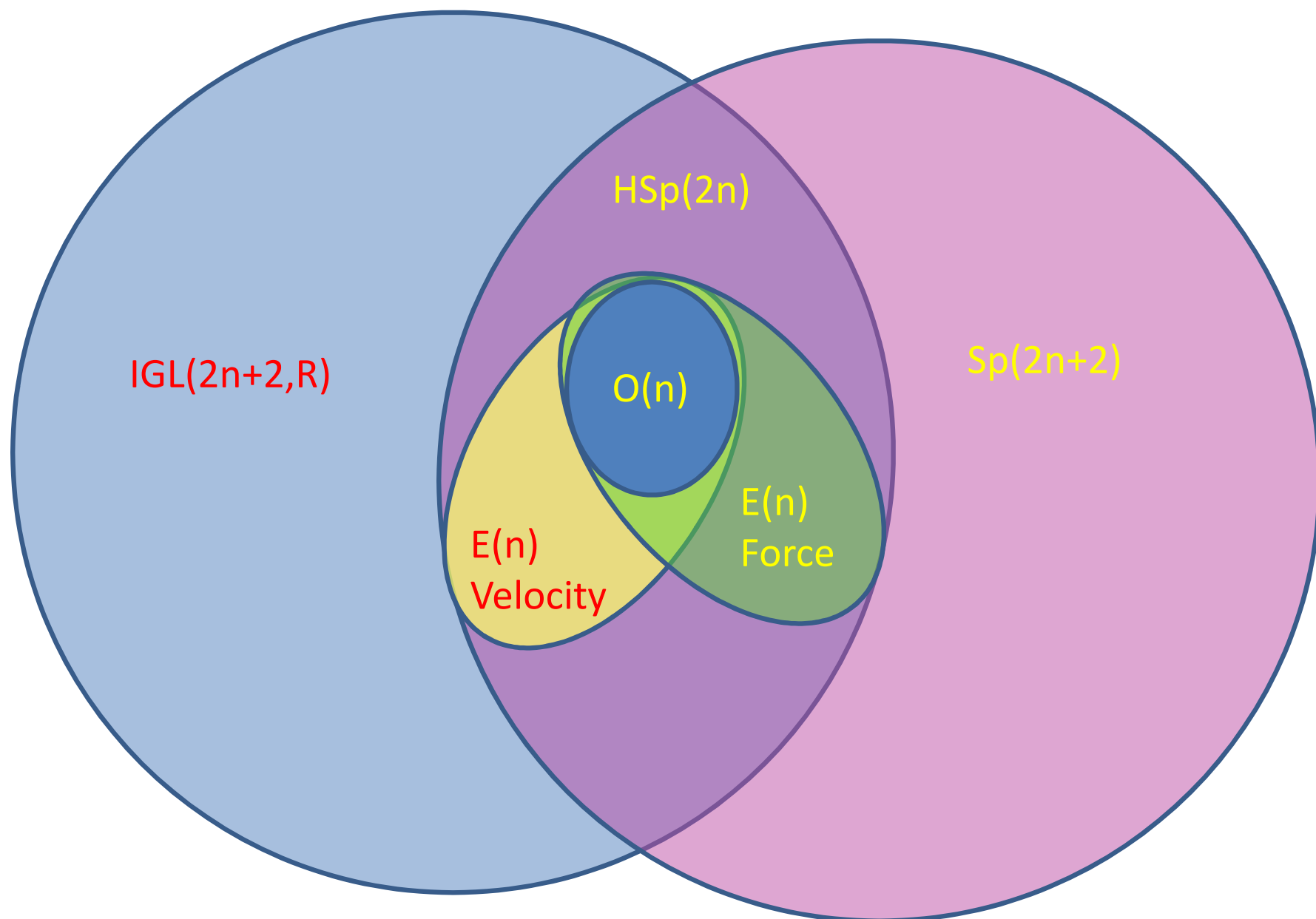
Null Surfaces

S.G. Low

Lorentz Subgroups of $U(1,n)$

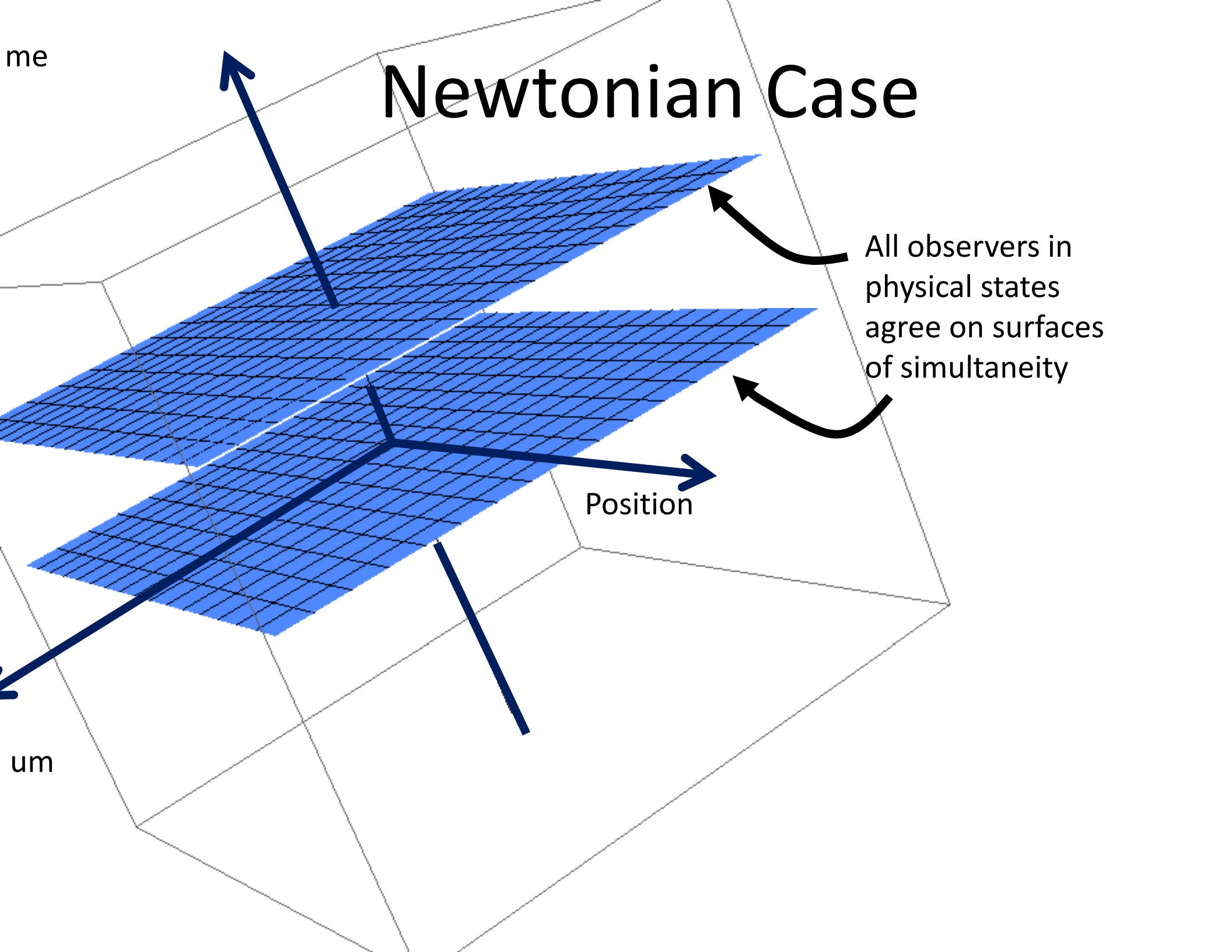


Hamilton mechanics symmetry in the classical limit

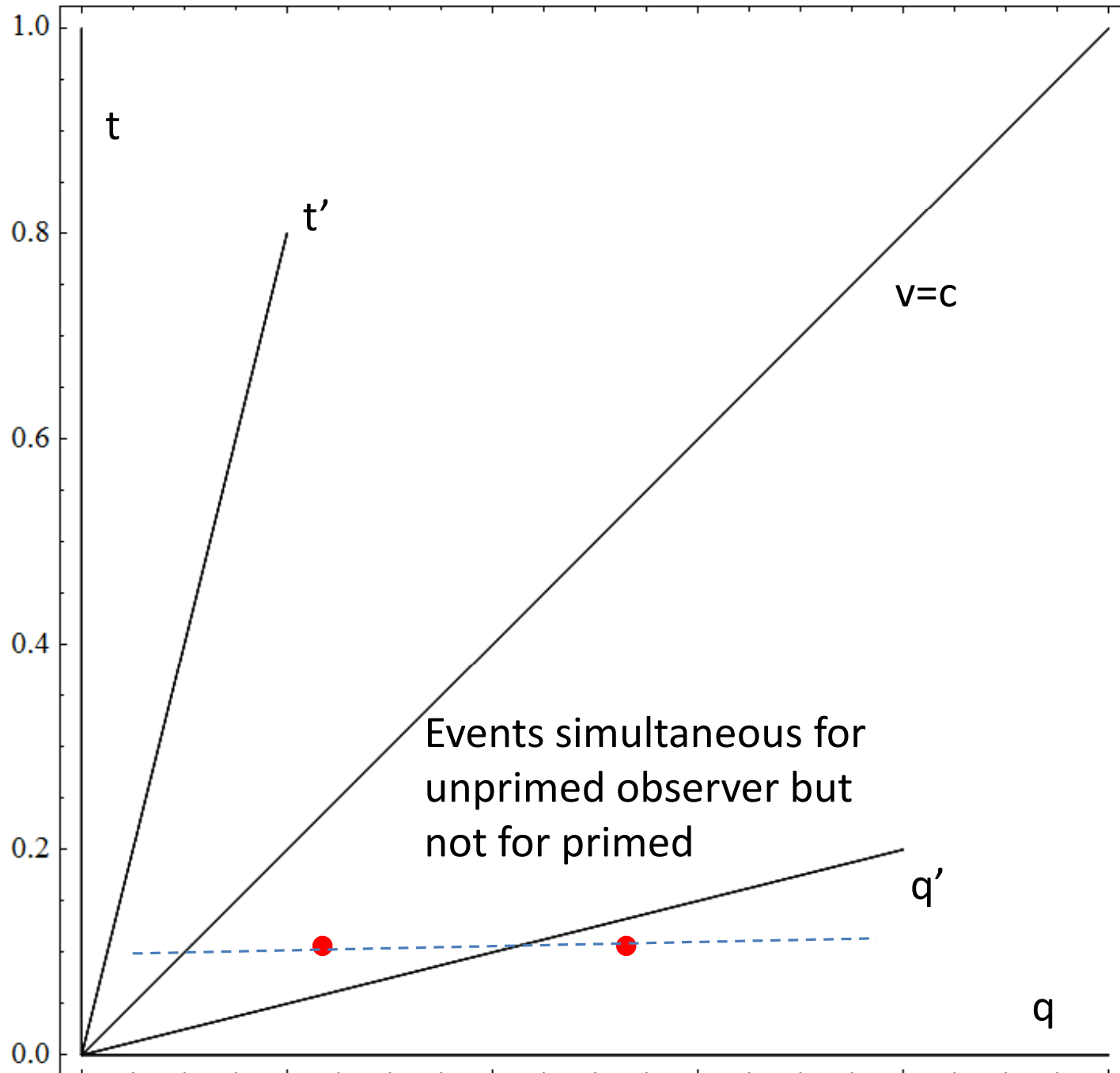


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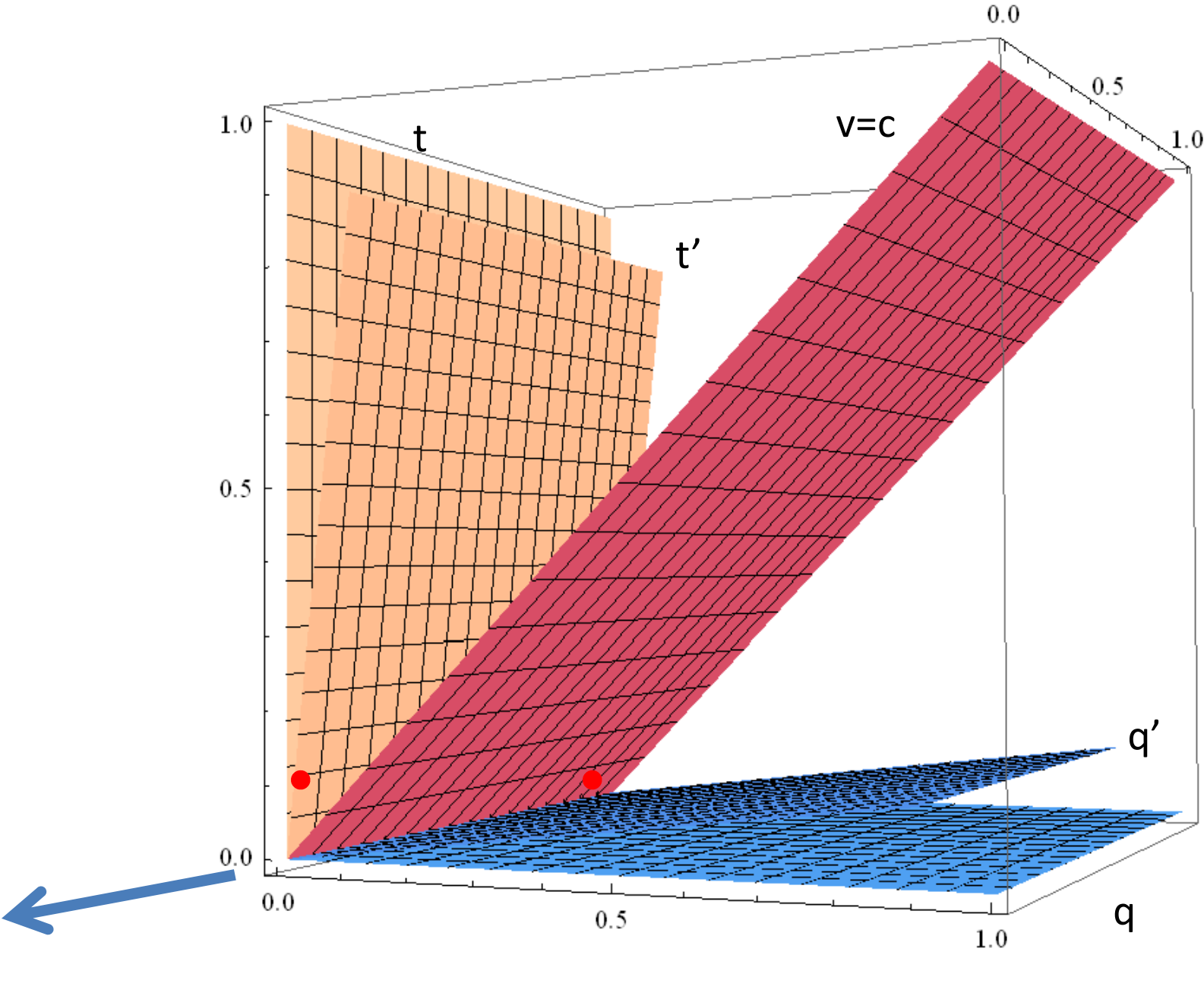
Newtonian Case



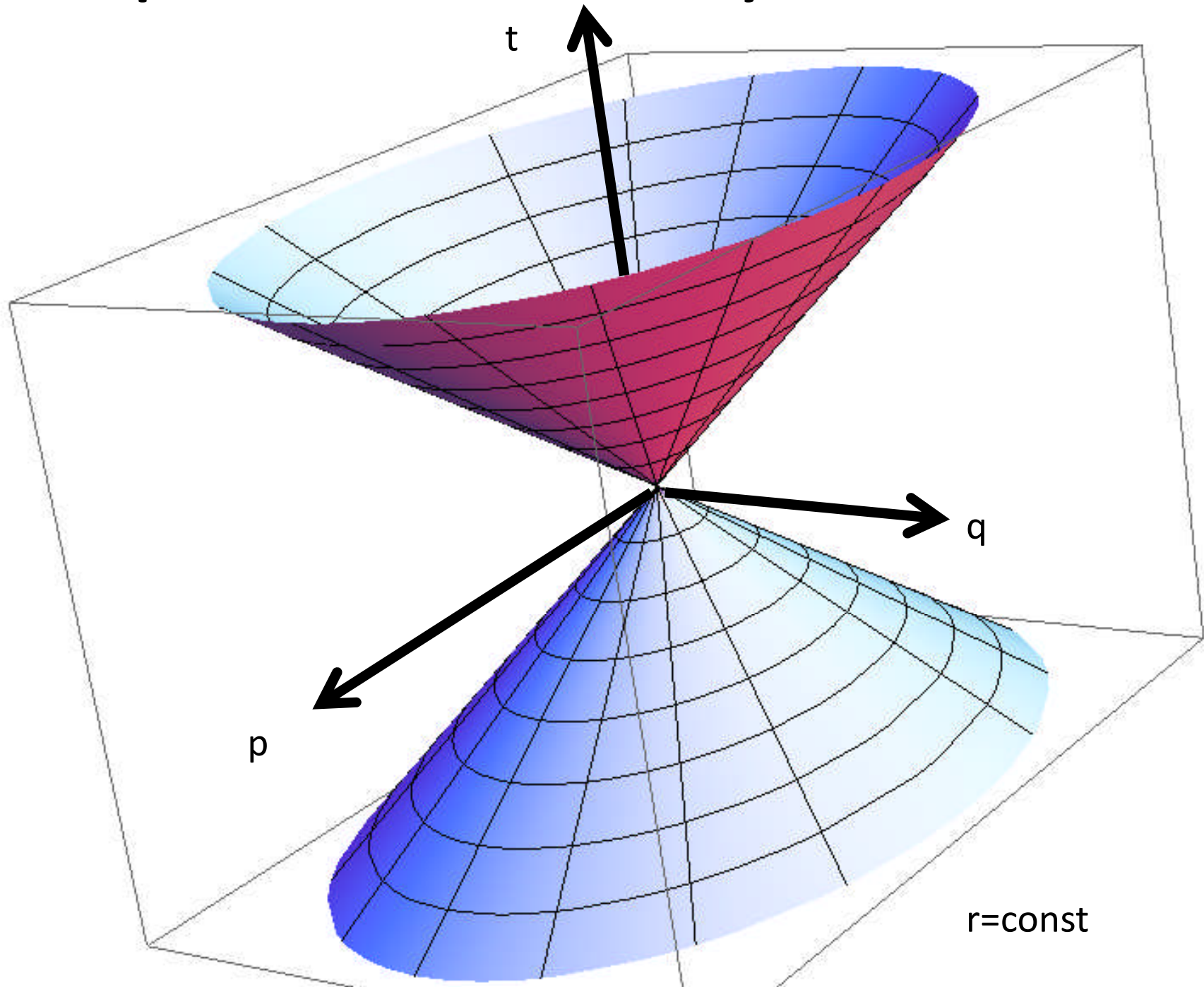
Special Relativity Simultaneity



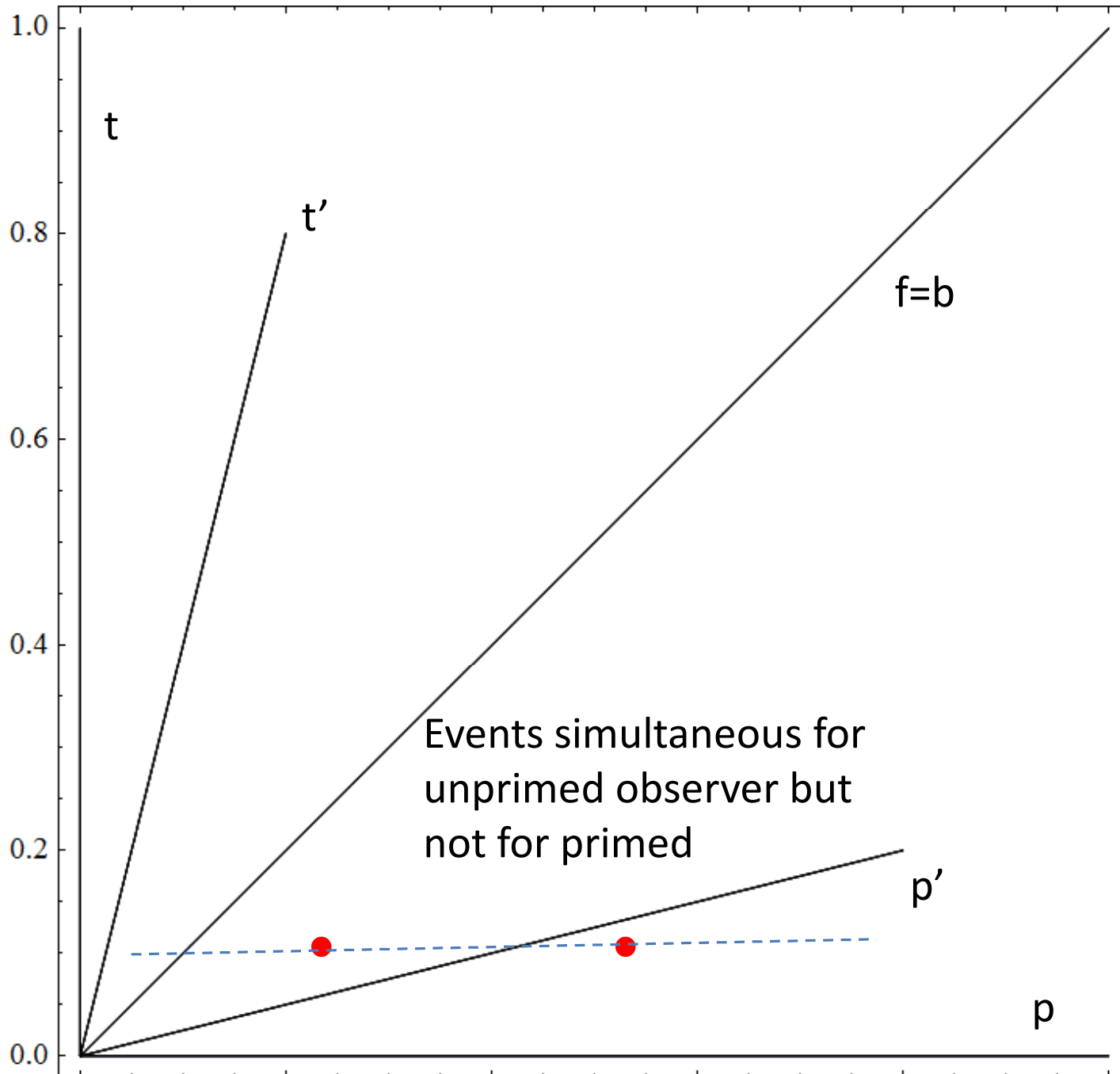
Special Relativity Simultaneity in Phase Space



Reciprocal Relativity Null Surface

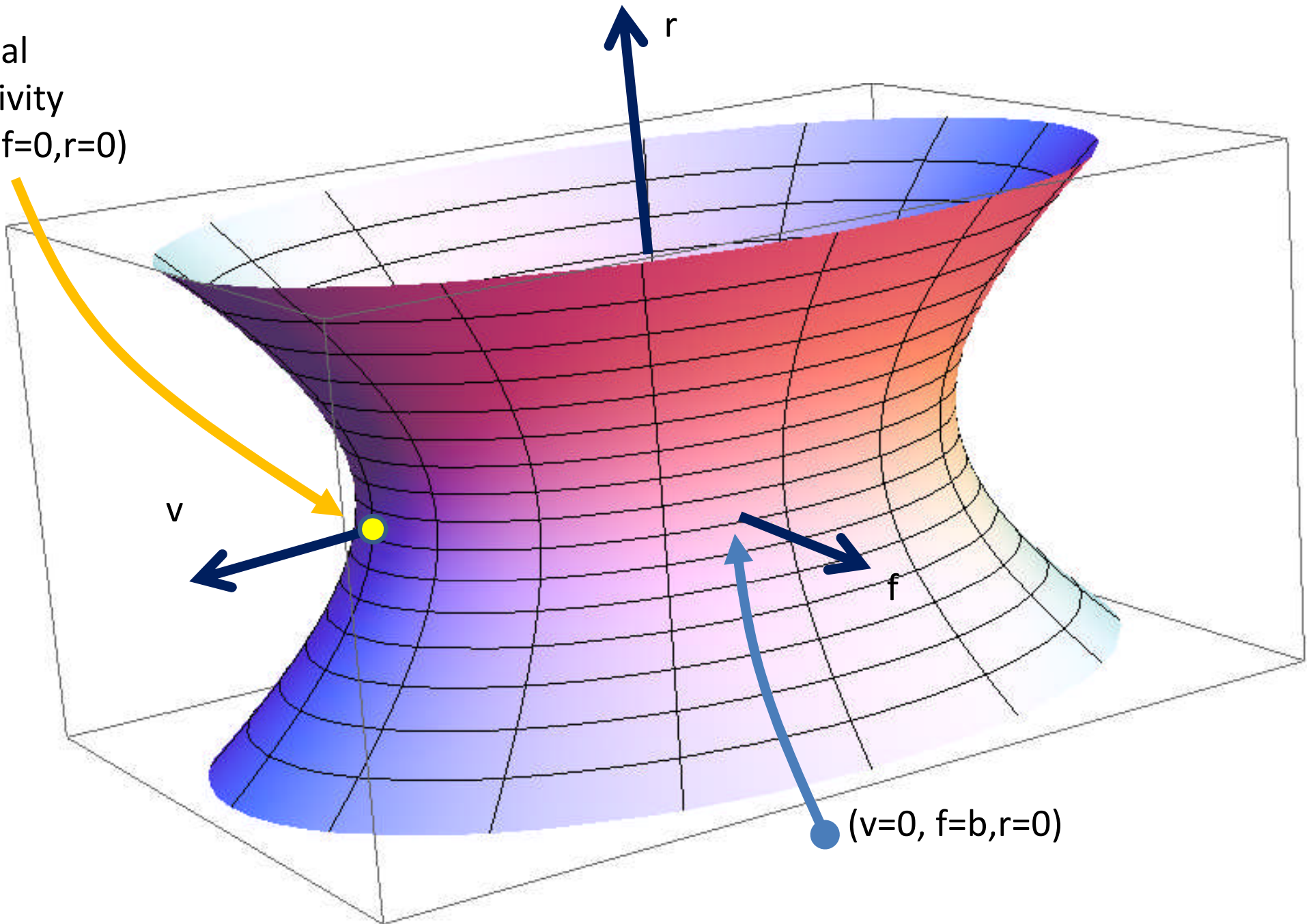


Reciprocal Relativity Simultaneity: the 2nd Lorentz group



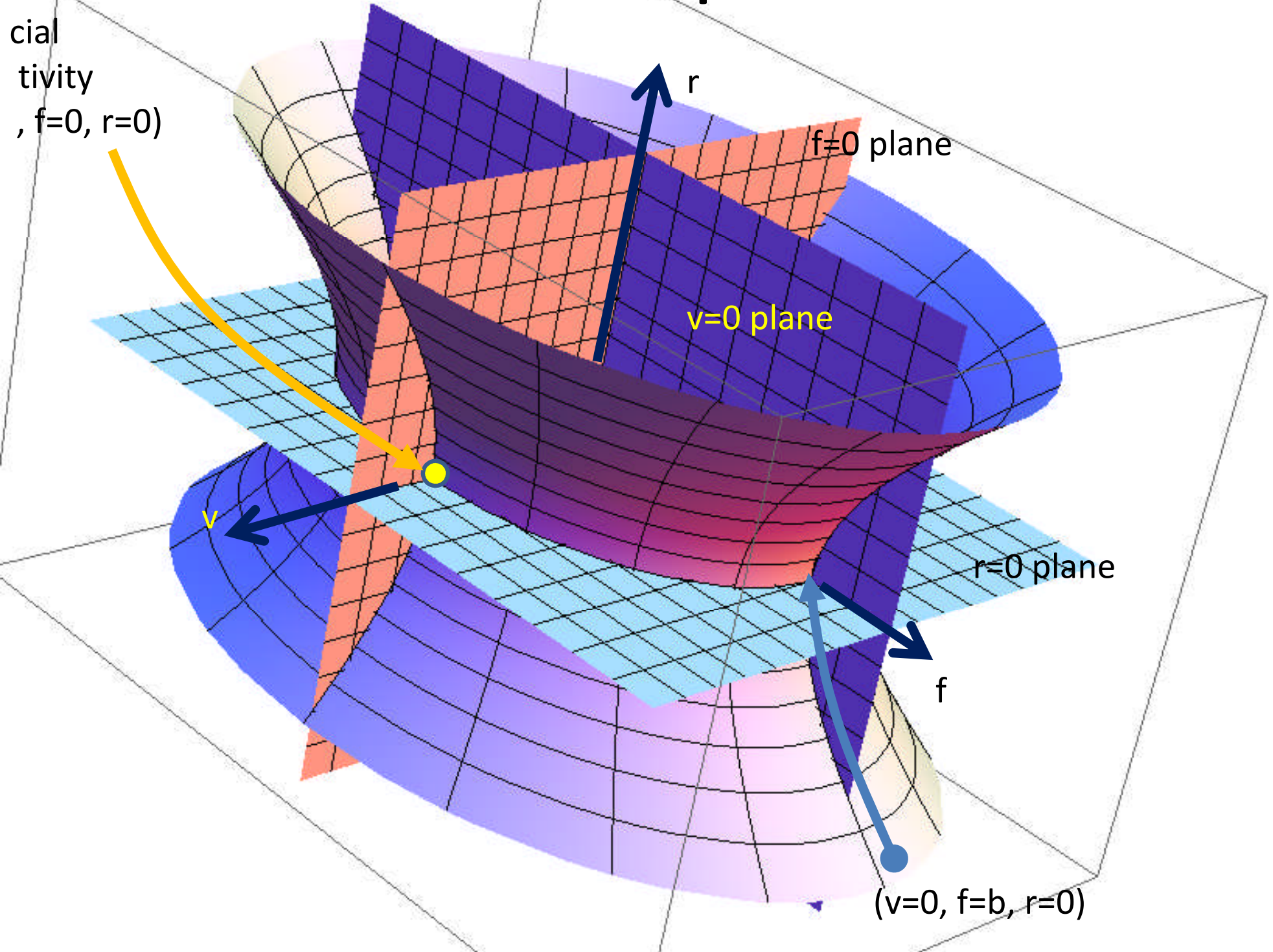
Null Surface parameters

Special
Relativity
($v=c, f=0, r=0$)



Null Surface parameters

cial
tivity
, $f=0$, $r=0$)



Null Cones

