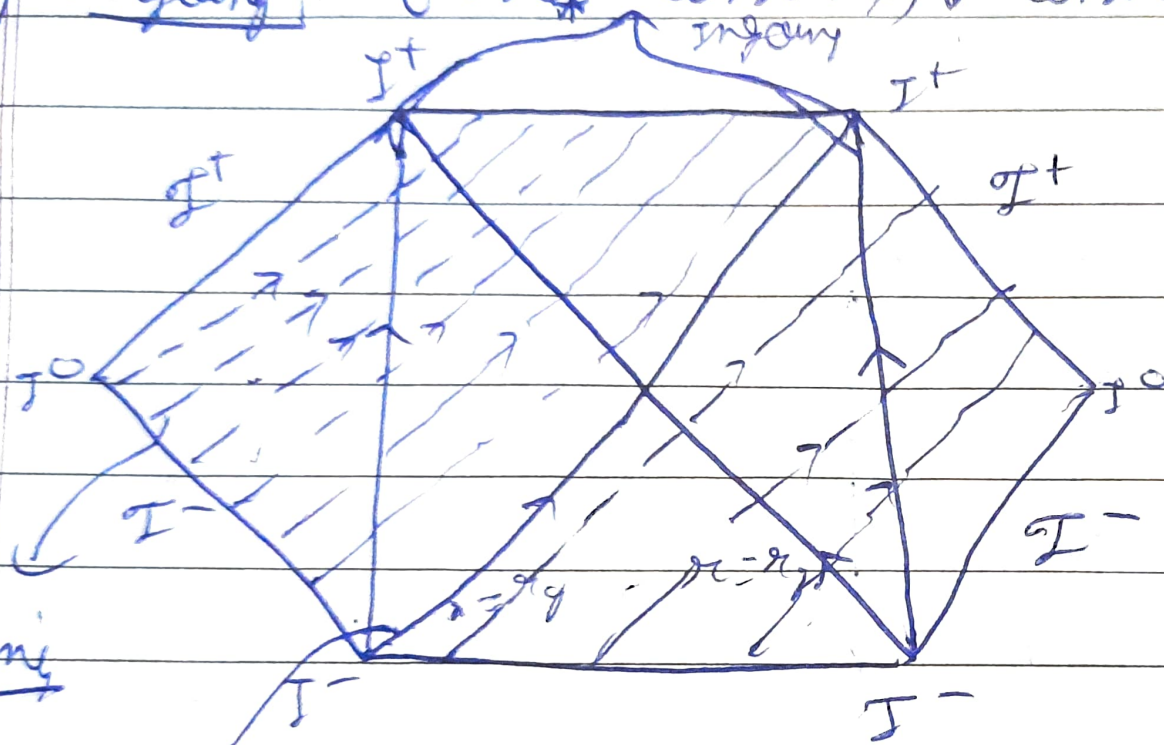Which is what we have plotted.

Q2) Which part of the BH Penrose diagram is covered by EF coord

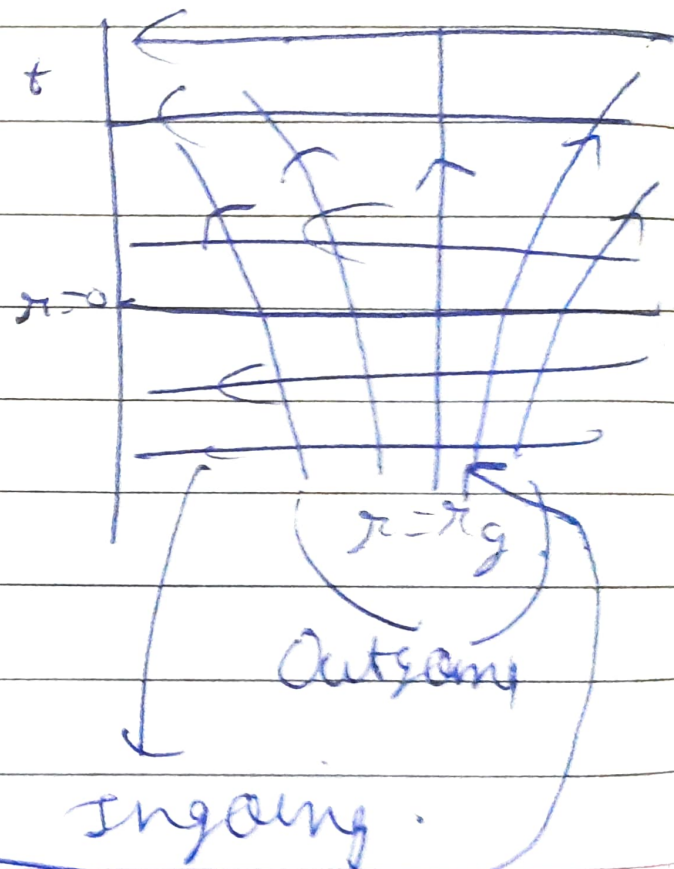An) Ingoing $\Rightarrow$ $t + r_* = $ const. $\Rightarrow V = $ const & $V = $ const

Ingoing

BH Penrose diag

Outgoing
$r = r_g$
is the
separator

$r = r_g$
Outgoing

Ingoing.