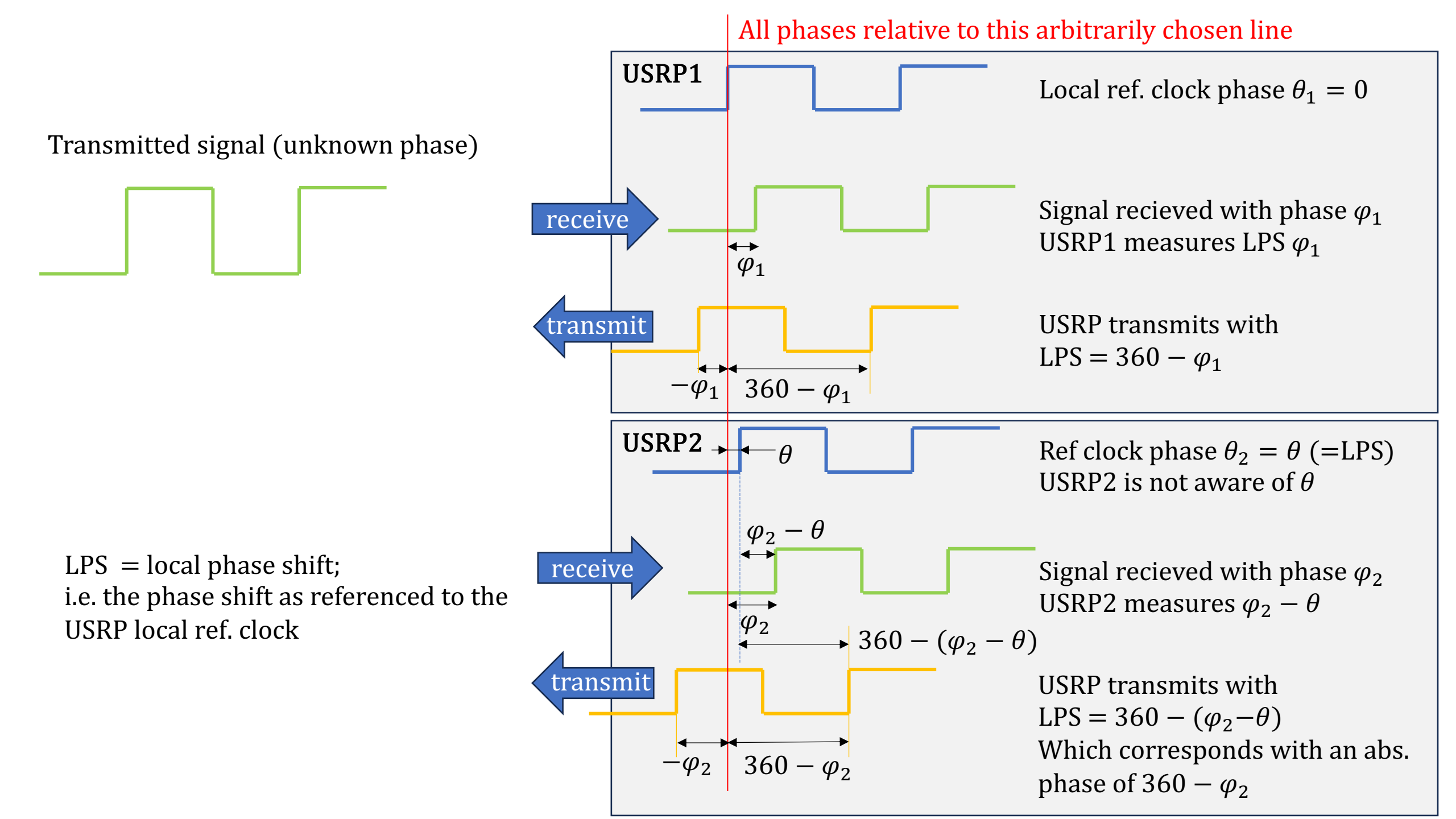
All phases relative to this arbitrarily chosen line
Transmitted signal (unknown phase)
USRP1
Local ref. clock phase $\theta_1 = 0$
receive
Signal recieved with phase φ_1
USRP1 measures LPS φ_1
φ_1
transmit
USRP transmits with
LPS $= 360 - \varphi_1$
$-\varphi_1$
$360 - \varphi_1$
USRP2
θ
Ref clock phase $\theta_2 = \theta$ (=LPS)
USRP2 is not aware of θ
$\varphi_2 - \theta$
receive
Signal recieved with phase φ_2
USRP2 measures $\varphi_2 - \theta$
φ_2
$360 - (\varphi_2 - \theta)$
transmit
USRP transmits with
LPS $= 360 - (\varphi_2 - \theta)$
Which corresponds with an abs.
phase of $360 - \varphi_2$
$-\varphi_2$
$360 - \varphi_2$
LPS = local phase shift;
i.e. the phase shift as referenced to the
USRP local ref. clock