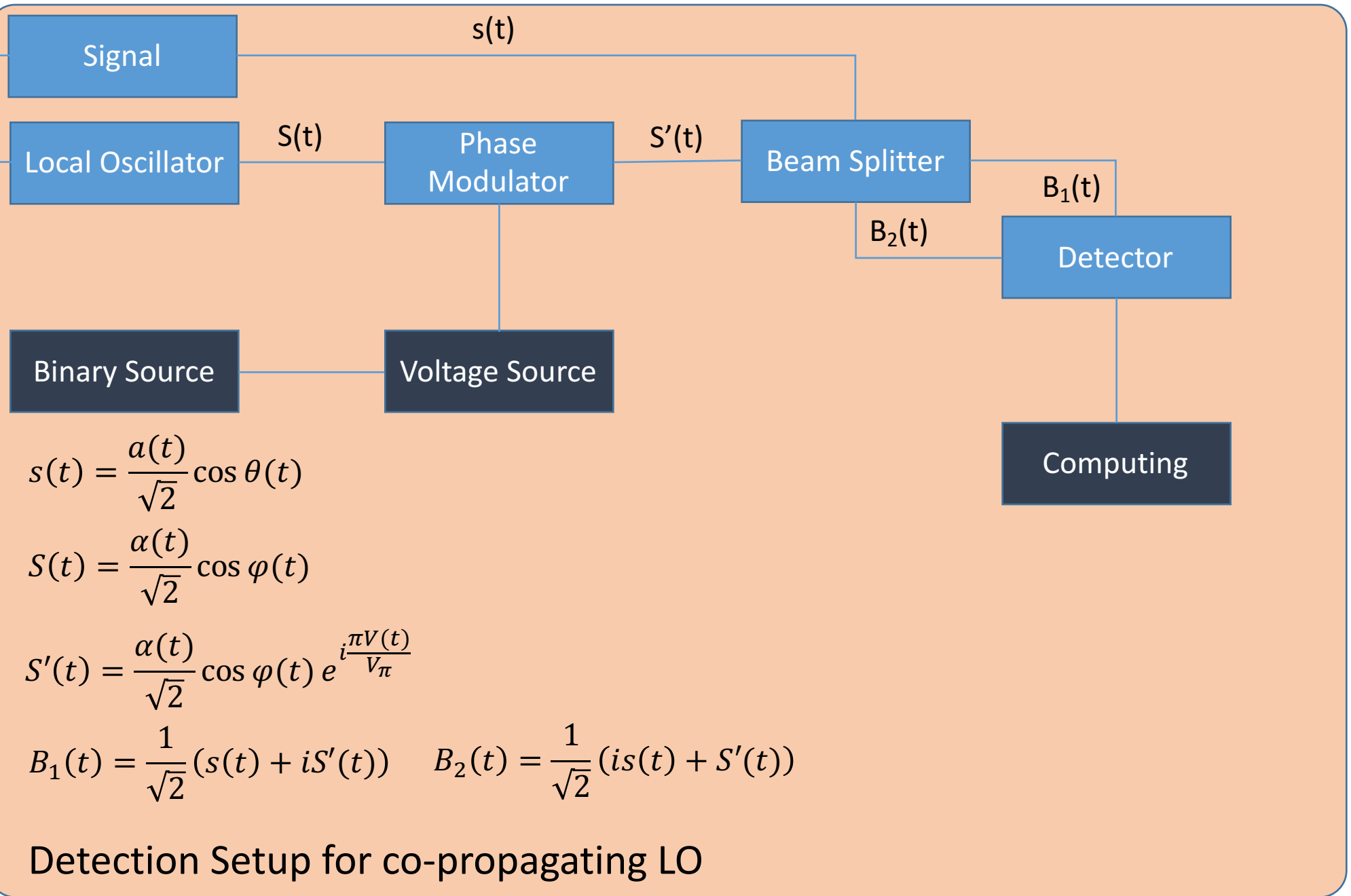
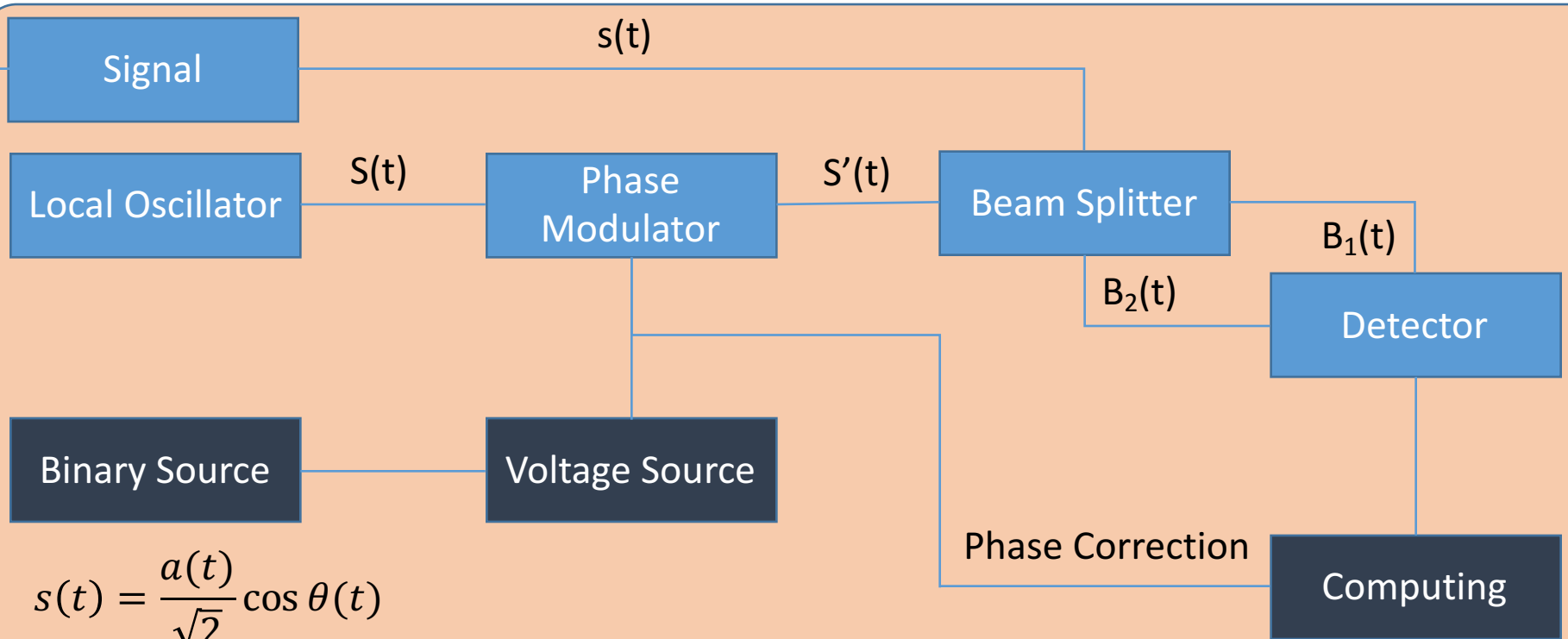


From Quantum Channel



From Quantum Channel



$$s(t) = \frac{a(t)}{\sqrt{2}} \cos \theta(t)$$

$$S(t) = \frac{\alpha(t)}{\sqrt{2}} \cos \varphi(t)$$

$$S'(t) = \frac{\alpha(t)}{\sqrt{2}} \cos \varphi(t) e^{i \frac{\pi V(t)}{V_\pi}}$$

$$B_1(t) = \frac{1}{\sqrt{2}} (s(t) + iS'(t)) \quad B_2(t) = \frac{1}{\sqrt{2}} (is(t) + S'(t))$$

Detection Setup for non co-propagating LO

