

EW production through VBS	Final states			
	SSWW	OSWW	WZ	ZZ
Diagram illustrating the VBS production process. Two incoming quarks (q) interact via a box diagram involving two vector bosons (V) and two W/Z bosons. The final state consists of two quarks (q).	Diagram illustrating the SSWW production process. Two incoming quarks (q) interact via a box diagram involving two $W^\pm$ bosons. The final state consists of a lepton (ℓ), an anti-quark ($\bar{q}$), a lepton (ℓ), and a neutrino (ν_ℓ).	Diagram illustrating the OSWW production process. Two incoming quarks (q) interact via a box diagram involving two $W^\pm$ bosons. The final state consists of a neutrino (ν_ℓ), a quark (q), a lepton (ℓ), and an anti-lepton ($\bar{\ell}$).	Diagram illustrating the WZ production process. Two incoming quarks (q) interact via a box diagram involving one $W^\pm$ boson and one Z boson. The final state consists of a lepton (ℓ), a quark (q), a lepton (ℓ), and a neutrino (ν_ℓ).	Diagram illustrating the ZZ production process. Two incoming quarks (q) interact via a box diagram involving two Z bosons. The final state consists of a lepton (ℓ), a quark (q), a lepton (ℓ), and an anti-lepton ($\bar{\ell}$).