Common selections				
	2 "high-purity" tracks, opposite sign			
M selection	$ \eta^{ m trk} < 2.5, p_T^{ m trk1} > 20$ GeV, $p_T^{ m trk2} > 5$ GeV, $ \eta^{ m M} < 2.1$			
	$0.62 < m_{\pi\pi} < 0.92 \text{GeV} (\rho^0) / 1.008 < m_{KK} < 1.032 \text{GeV} (\phi) / 0.84 < m_{K\pi} < 0.94 \text{GeV} (\text{K}^{*0})$			
Category	ggH	VBF high- p_T^γ	VBF low- p_T^{γ}	VH
Trigger	Photon +	high- p_T photon +	Photon +	Double or single
	jet with $ au$ -ID	VBF-like jets	jet with $ au$ -ID	lepton
p_T^{γ} [GeV]	> 38	> 75	> 38 and < 75	> 40
$ \eta^{\gamma} $	< 2.5	< 1.4	< 2.1	< 2.5
γ -ID signal eff.	80%	90%	80/90%	90%
$p_{T_i}^{\mathrm{M}}$ [GeV]	> 38	> 30	> 38	> 38
$I^{\mathrm{trk}}(M)$	> 0.9	> 0.9	> 0.9	> 0.8
$I^{\text{neu}}(M)$	> 0.8	-	-	-
Event	Meson candidate	2 jets with	2 jets with	1 selected and
tagging	within a jet with	$p_T^{j} > 40\mathrm{GeV}$	$p_T^{\rm j} > 30/20~{ m GeV}$	isolated e $/\mu$
	$p_T^{j} > 40$ GeV, tracks	$m_{\rm ii} > 400~{ m GeV}$	$m_{\rm ii} > 300~{ m GeV}$	or 2 selected e/ μ
	with $\Delta R < 0.07$	$ \Delta \eta_{ m jj} > 3$	$ \Delta \eta_{ m jj} > 3$	compatible with Z mass
	BDT categories			
cat0	BDT> 0.55	BDT> 0.7	BDT> 0.7	-
cat1	-0.4 < BDT < 0.55	-0.6 < BDT < 0.7	-0.6 < BDT < 0.7	-
DA DED /T-1.1 - 1)				
PAPER (Table 1)				