Requirements for the H $ ightarrow 4\ell$ fiducial phase space		
Lepton kinematics and isolation		
Leading lepton p_T	$p_{\rm T} > 20{\rm GeV}$	
Sub-leading lepton p_T	$p_{\rm T} > 10{ m GeV}$	
Additional electrons (muons) $p_{\rm T}$	$p_{\rm T} > 7~(5)~{\rm GeV}$	
Pseudorapidity of electrons (muons)	$ \eta < 2.5 (2.4)$	
Sum of scalar p_T of all stable particles within $\Delta R < 0.4$ from lepton	$< 0.4 p_{\mathrm{T}}$	
Event topology		
Existence of at least two SFOS lepton pairs, where leptons satisfy criteria above		

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Existence of at least two SFOS lepton pairs, where leptons satisfy criteria above	
Inv. mass of the Z_1 candidate	$40 < m(Z_1) < 120 \text{GeV}$
Inv. mass of the Z_2 candidate	$12 < m(Z_2) < 120 \text{GeV}$
Distance between selected four leptons	$\Delta R(\ell_i \ell_j) > 0.02$
Inv. mass of any opposite-sign lepton pair	$m(\ell_i^+\ell_i^-) > 4 \text{GeV}$
Inv. mass of the selected four leptons	$105 < m_{4\ell} < 140 \text{GeV}$