Table 1: Optimized event categories used in Analysis A and Analysis B.

A	**0,1-Jet**	**Tight** $p_T(\mu\mu) \geq 10$ GeV/c	**BB** (Barrel-Barrel)
			BO (Barrel-Overlap)
			BE (Barrel-Endcap)
			OO (Overlap-Overlap)
			OE (Overlap-Endcap)
			EE (Endcap-Endcap)
		Loose $p_T(\mu\mu) < 10$ GeV/c	**BB**
			BO
			BE
			OO
			OE
			EE
	2-Jet	**VBF Tight** $M(jj) > 650$ GeV/c^2 and $\|\Delta\eta(jj)\| > 3.5$	
		GF Tight (not VBF Tight selected) $M(jj) > 250$ GeV/c^2 and $p_T(\mu\mu) > 50$ GeV/c	
		Loose (not VBF Tight and not GF Tight selected)	
B	**0-Jet**	**Tight** ($p_T(\mu\mu) \geq 15$ GeV/c)	
		Loose ($p_T(\mu\mu) < 15$ GeV/c)	
	1-Jet	no subcategories	
	2-Jet	**VBF Tight** $M(jj) > 500$ GeV/c^2 and $\|\Delta\eta(jj)\| > 4$, **for 7 TeV** $\|\Delta\eta(jj)\| > 3$	
		VBF Loose (not VBF Tight selected) $M(jj) > 300$ GeV/c^2 and $\|\Delta\eta(jj)\| > 3$ **category used only for** $\sqrt{s} = 8$ **TeV**	
		non-VBF (not VBF Tight and not VBF Loose selected)	