

13TeV VBF $H \rightarrow \gamma\gamma$ Analysis

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introduction

- feedback from Coupling meeting
 - update with Sherpa $\gamma\gamma+0,1,2,3$ jets
 - plot of the variables
 - discrimination power of each variable
- 25ns data
 - h008 MxAOD:267638-279515 282.72pb⁻¹
 - 205 events after VBF Preselection

variable importance

• Rank	: Variable	: Variable Importance
• 1	: m_{jj}	: 1.992e-01
• 2	: $\Delta\eta_{jj}$	: 1.756e-01
• 3	: $\Delta\Phi_{\gamma\gamma,jj}$	: 1.654e-01
• 4	: η^*	: 1.610e-01
• 5	: $\Delta R^{\min}_{\gamma,j}$	: 1.542e-01
• 6	: $P_{Tt\gamma\gamma}$	: 1.447e-01

distribution of each variable



