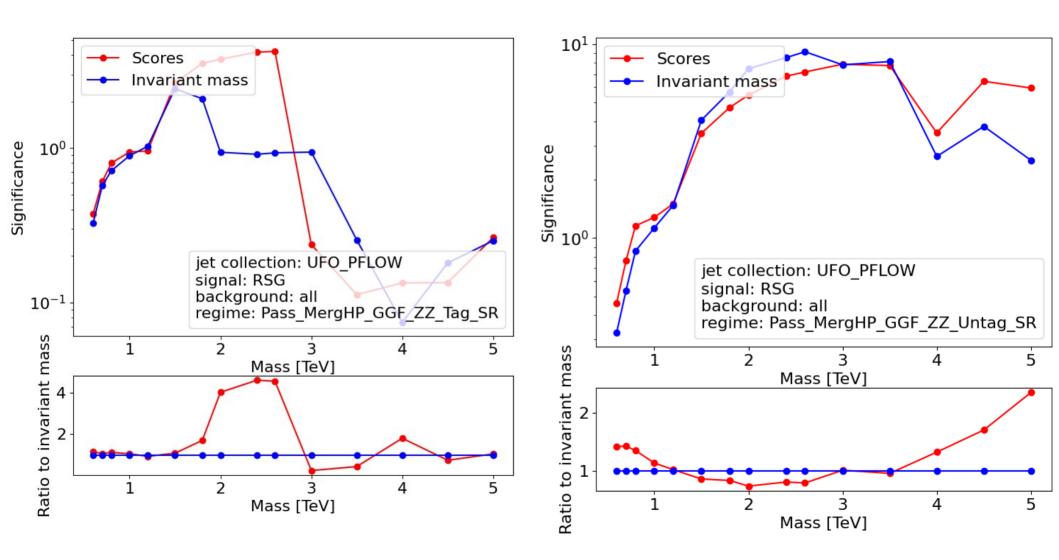
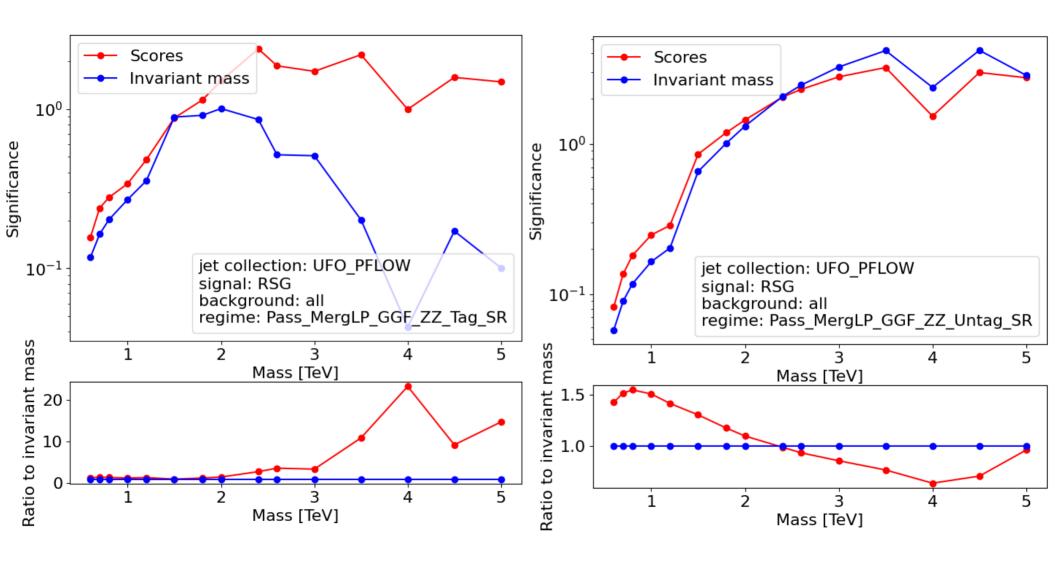
Significance

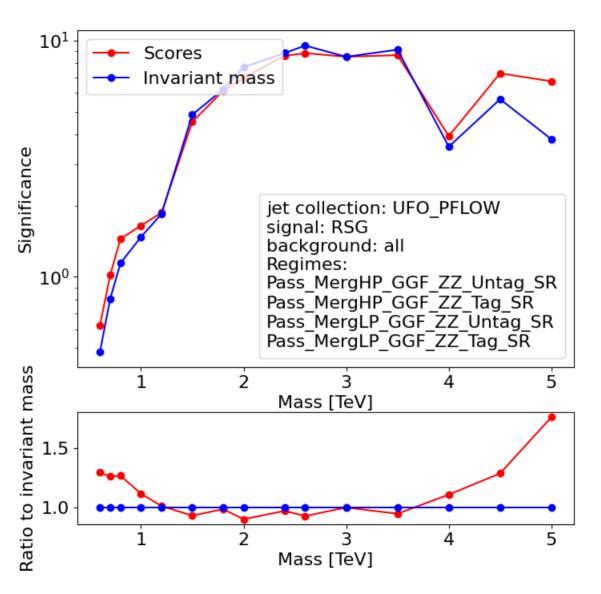
- Histograms of scores for signal and background (same binning, Nbins = 100)
- For each bin get s (content of the signal distribution) and b (content of the background distribution)
- If both s and b are > 0 we increment the sum:

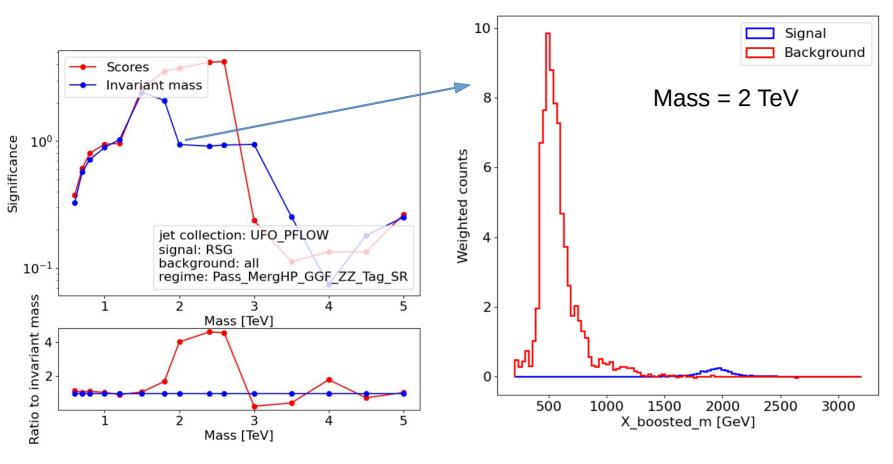
$$sig^2 = \sum [(s + b) * ln(1 + s/b) - s]$$

- We compute the significance as the square root of sig²
- The same procedure is repeated for the invariant mass









Different distribution, many background contents ignored because s = 0

Missing VBF events

- No events with "Pass_isVBF" = True
- Used to discriminate between VBF and ggF mode → we can only look at ggF

