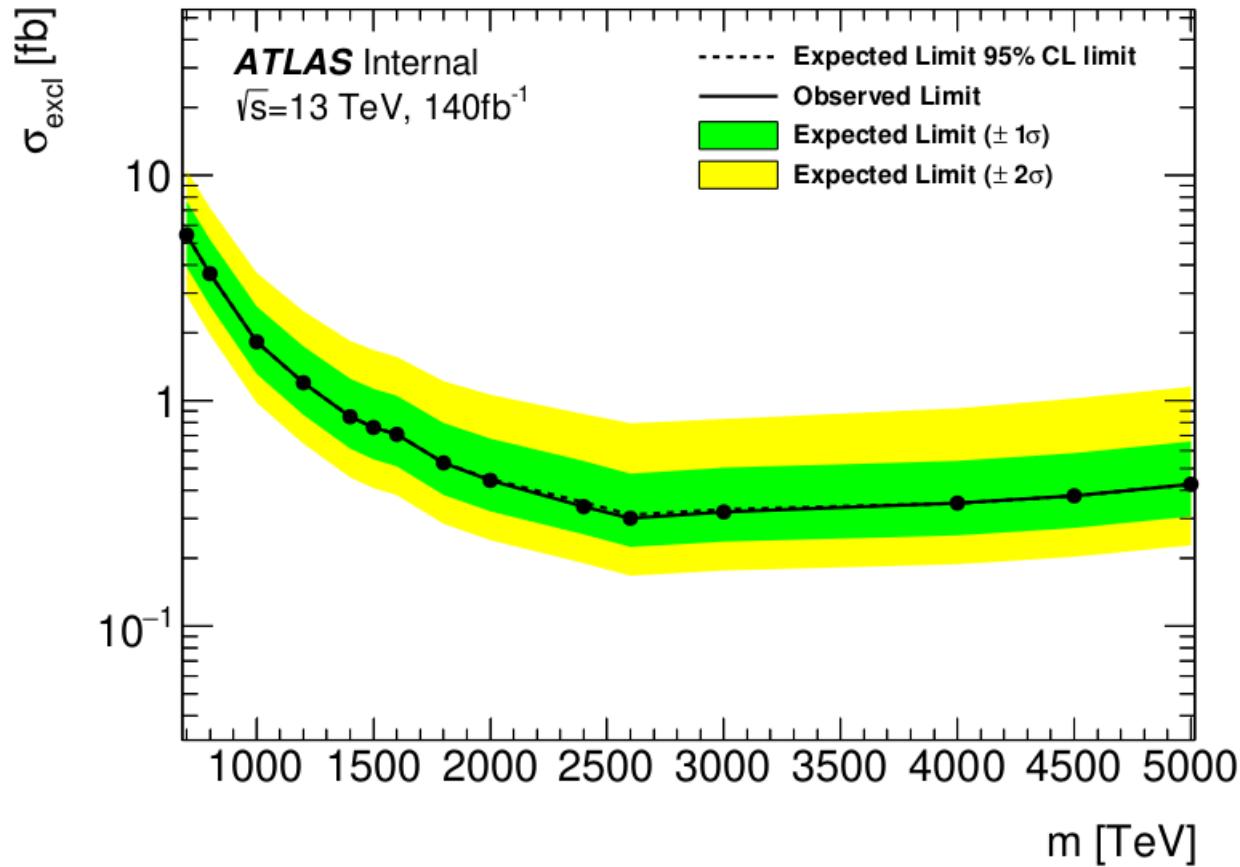
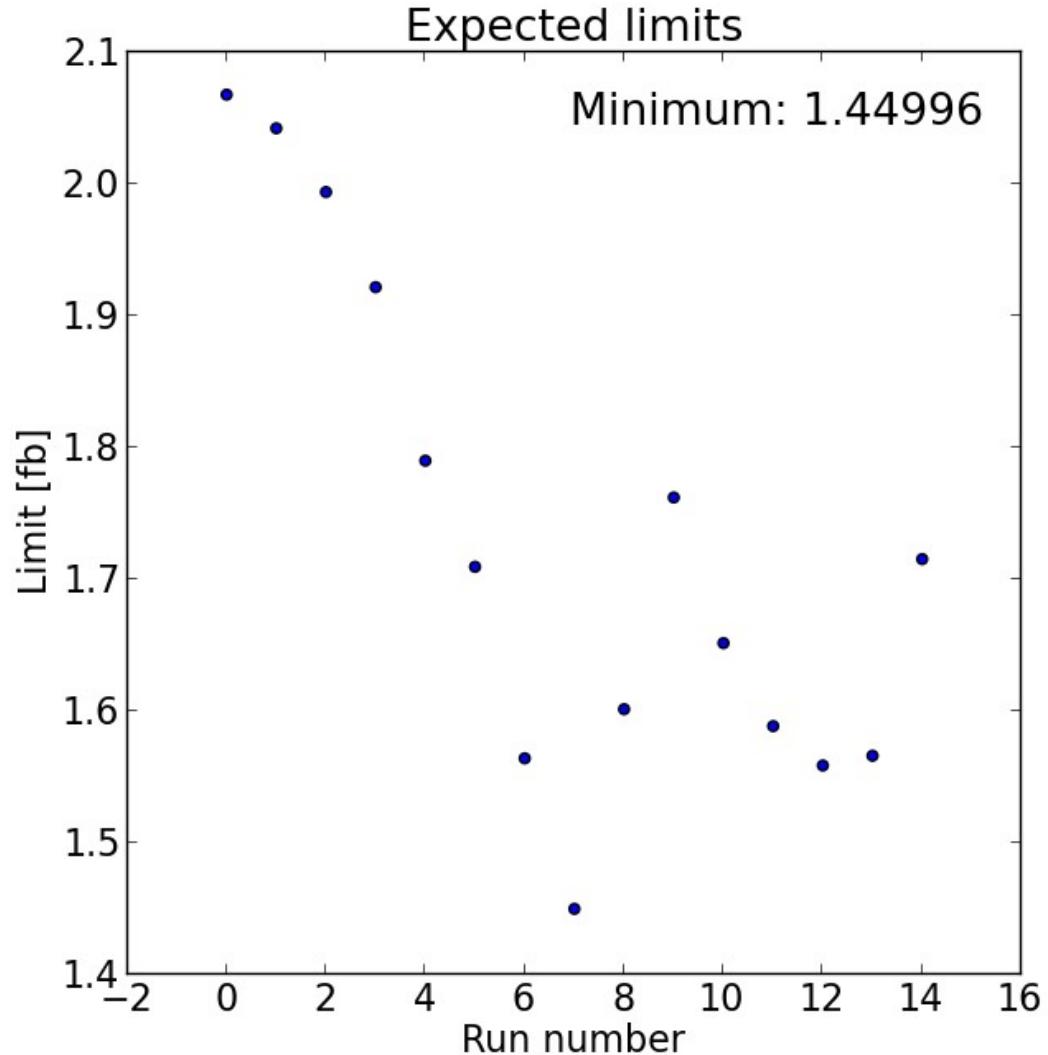


Invariant mass

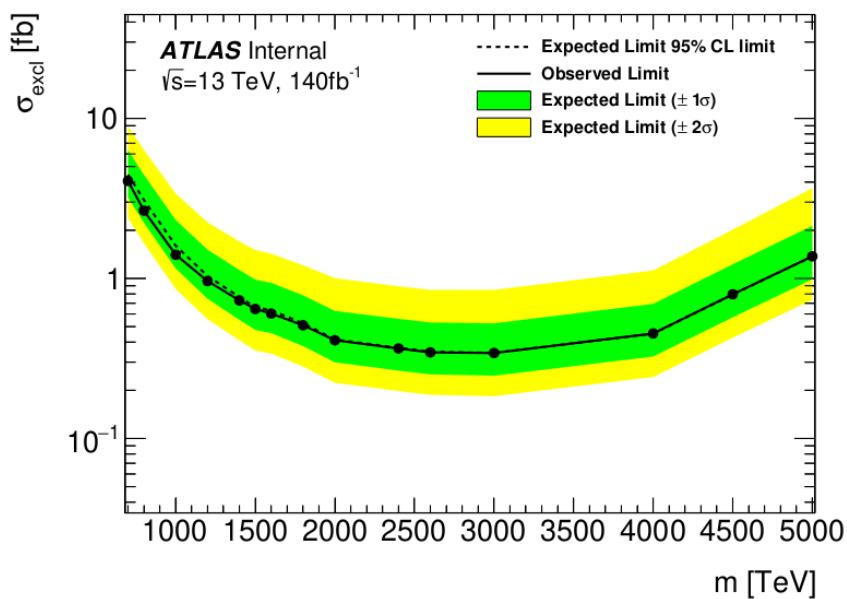
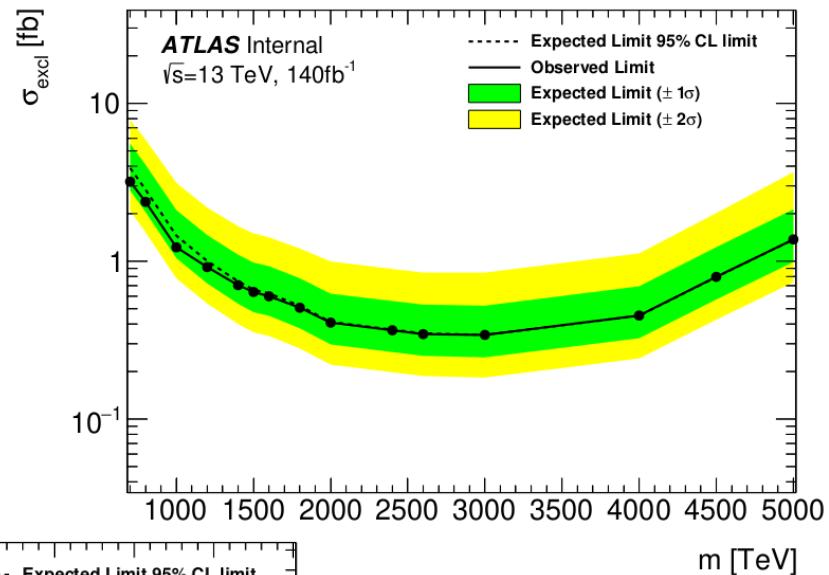
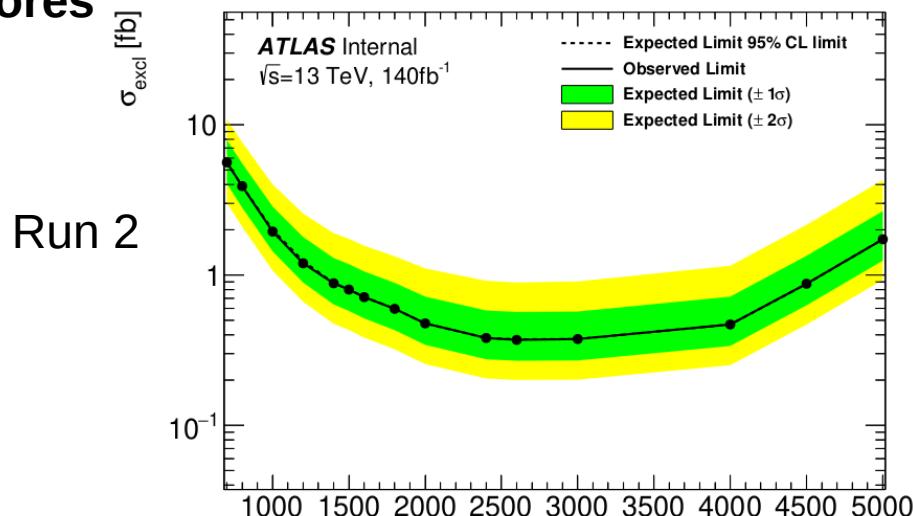


Scores



```
if usePNN:  
    if runNumber == 0:  
        bins = np.linspace(0, 1, 10)  
    if runNumber == 01:  
        bins = np.linspace(0, 1, 50)  
    if runNumber == 02:  
        bins = np.linspace(0, 1, 100)  
    if runNumber == 03:  
        bins = np.linspace(0, 1, 200)  
    if runNumber == 04:  
        bins = np.linspace(0, 1, 400)  
    if runNumber == 05:  
        bins = np.linspace(0, 1, 600)  
    if runNumber == 06:  
        bins = np.linspace(0, 1, 800)  
    if runNumber == 07:  
        bins = np.linspace(0, 1, 1000)  
    if runNumber == 8:  
        bins1 = np.linspace(0, 0.3, 300) ### binwidth = 0.001  
        bins2 = np.linspace(0.3, 0.7, 40) ### binwidth = 0.01  
        bins3 = np.linspace(0.7, 1, 300) ### binwidth = 0.001  
        bins = np.concatenate((bins1, bins2, bins3))  
    if runNumber == 9:  
        bins1 = np.linspace(0, 0.3, 150) ### binwidth = 0.002  
        bins2 = np.linspace(0.3, 0.7, 20) ### binwidth = 0.02  
        bins3 = np.linspace(0.7, 1, 150) ### binwidth = 0.002  
        bins = np.concatenate((bins1, bins2, bins3))  
    if runNumber == 10:  
        bins1 = np.linspace(0, 0.2, 200) ### binwidth = 0.001  
        bins2 = np.linspace(0.2, 0.8, 60) ### binwidth = 0.01  
        bins3 = np.linspace(0.8, 1, 200) ### binwidth = 0.001  
        bins = np.concatenate((bins1, bins2, bins3))  
    if runNumber == 11:  
        bins1 = np.linspace(0, 0.3, 300) ### binwidth = 0.001  
        bins2 = np.linspace(0.3, 0.7, 80) ### binwidth = 0.005  
        bins3 = np.linspace(0.7, 1, 300) ### binwidth = 0.001  
        bins = np.concatenate((bins1, bins2, bins3))  
    if runNumber == 12:  
        bins1 = np.linspace(0, 0.3, 300) ### binwidth = 0.001  
        bins2 = np.linspace(0.3, 0.7, 200) ### binwidth = 0.002  
        bins3 = np.linspace(0.7, 1, 300) ### binwidth = 0.001  
        bins = np.concatenate((bins1, bins2, bins3))  
    if runNumber == 13:  
        bins1 = np.linspace(0, 0.2, 200) ### binwidth = 0.001  
        bins2 = np.linspace(0.2, 0.8, 300) ### binwidth = 0.002  
        bins3 = np.linspace(0.8, 1, 200) ### binwidth = 0.001
```

Scores



Invariant mass vs scores

