| $m_S$ [GeV] | $m_{A'}$ [GeV] | $H_T^{gen} > 1000$ GeV | Lepton Veto | Trigger | $H_T > 1200$ GeV | One AK15 Cluster | $n_{constituent}^{SUEP} > 70$ | $S_{boosted}^{SUEP} > 0.5$ | Efficiency |
|---|---|---|---|---|---|---|---|---|---|
| 125 | 1 | 0.002596 | 0.9994 | 0.87 | 0.703 | 0.946 | 0.062 | 0.58 | 0.0207 |
| 125 | 0.5 | 0.002596 | 0.9989 | 0.864 | 0.717 | 0.945 | 0.058 | 0.5 | 0.0169 |
| 125 | 0.7 | 0.002596 | 0.9943 | 0.784 | 0.776 | 0.942 | 0.047 | 0.5 | 0.0132 |
| 200 | 1 | 0.004823 | 0.99972 | 0.8762 | 0.745 | 0.9491 | 0.695 | 0.932 | 0.402 |
| 200 | 0.5 | 0.004823 | 0.99916 | 0.8755 | 0.756 | 0.9443 | 0.65 | 0.937 | 0.38 |
| 200 | 0.7 | 0.004823 | 0.9915 | 0.819 | 0.797 | 0.9431 | 0.595 | 0.93 | 0.338 |
| 300 | 1 | 0.009036 | 0.99939 | 0.876 | 0.783 | 0.9469 | 0.9799 | 0.9705 | 0.617 |
| 300 | 0.5 | 0.009036 | 0.99915 | 0.8835 | 0.782 | 0.9454 | 0.9771 | 0.9736 | 0.621 |
| 300 | 0.7 | 0.009036 | 0.9922 | 0.8433 | 0.799 | 0.9468 | 0.9695 | 0.971 | 0.596 |
| 400 | 1 | 0.01467 | 1.0 | 0.869 | 0.823 | 0.944 | 0.9928 | 0.9856 | 0.66 |
| 400 | 0.5 | 0.01467 | 0.99871 | 0.8755 | 0.809 | 0.9485 | 0.992 | 0.9792 | 0.652 |
| 400 | 0.7 | 0.01467 | 0.9942 | 0.8493 | 0.808 | 0.9465 | 0.9882 | 0.9813 | 0.627 |
| 500 | 1 | 0.02172 | 0.99987 | 0.8574 | 0.8522 | 0.9508 | 0.9959 | 0.9768 | 0.676 |
| 500 | 0.5 | 0.02172 | 0.9997 | 0.866 | 0.828 | 0.954 | 0.9978 | 0.9782 | 0.668 |
| 500 | 0.7 | 0.02172 | 0.9954 | 0.8501 | 0.8332 | 0.9477 | 0.9944 | 0.9787 | 0.65 |
| 600 | 1 | 0.0302 | 1.0 | 0.83 | 0.88 | 0.954 | 0.9966 | 0.9795 | 0.68 |
| 600 | 0.5 | 0.0302 | 0.99942 | 0.8478 | 0.8632 | 0.9532 | 0.9981 | 0.9809 | 0.683 |
| 600 | 0.7 | 0.0302 | 0.9958 | 0.8449 | 0.8536 | 0.9503 | 0.9972 | 0.979 | 0.666 |
| 700 | 1 | 0.04009 | 0.99954 | 0.8102 | 0.9042 | 0.9578 | 0.99926 | 0.9801 | 0.687 |
| 700 | 0.5 | 0.04009 | 1.0 | 0.823 | 0.878 | 0.956 | 0.9995 | 0.977 | 0.675 |
| 700 | 0.7 | 0.04009 | 0.9967 | 0.8305 | 0.8675 | 0.9549 | 0.9986 | 0.9797 | 0.671 |
| 800 | 1 | 0.05141 | 0.99967 | 0.7778 | 0.9268 | 0.9617 | 0.99977 | 0.9814 | 0.68 |
| 800 | 0.5 | 0.05141 | 0.99974 | 0.794 | 0.909 | 0.959 | 0.9996 | 0.9777 | 0.676 |
| 800 | 0.7 | 0.05141 | 0.9969 | 0.821 | 0.886 | 0.969 | 0.9993 | 0.9813 | 0.689 |
| 900 | 1 | 0.06415 | 1.0 | 0.717 | 0.958 | 0.969 | 0.9993 | 0.9854 | 0.656 |
| 900 | 0.5 | 0.06415 | 1.0 | 0.762 | 0.931 | 0.968 | 1.0 | 0.9811 | 0.674 |
| 900 | 0.7 | 0.06415 | 0.9979 | 0.7814 | 0.9123 | 0.968 | 0.99978 | 0.9835 | 0.677 |
| 1000 | 1 | 0.0783 | 0.99957 | 0.685 | 0.9727 | 0.9772 | 1.0 | 0.985 | 0.641 |
| 1000 | 0.5 | 0.0783 | 0.9991 | 0.697 | 0.958 | 0.9725 | 1.0 | 0.9807 | 0.636 |
| 1000 | 0.7 | 0.0783 | 0.99791 | 0.7489 | 0.9255 | 0.9755 | 0.99993 | 0.982 | 0.663 |
| 1200 | 1 | 0.1919 | 1.0 | 0.541 | 0.9923 | 0.988 | 1.0 | 0.99 | 0.525 |
| 1200 | 0.7 | 0.1919 | 0.9992 | 0.66 | 0.954 | 0.992 | 1.0 | 0.983 | 0.613 |
| 1200 | 0.5 | 0.1919 | 0.9997 | 0.585 | 0.981 | 0.9903 | 1.0 | 0.9914 | 0.563 |
| 1500 | 1 | 0.5856 | 0.99967 | 0.36 | 0.9942 | 0.9988 | 1.0 | 0.993 | 0.355 |
| 1500 | 0.7 | 0.5856 | 0.9986 | 0.512 | 0.9767 | 1.0 | 1.0 | 0.9965 | 0.498 |
| 1500 | 0.5 | 0.5856 | 1.0 | 0.407 | 0.9953 | 0.9979 | 1.0 | 0.9948 | 0.402 |
| 2000 | 1 | 1 | 0.99986 | 0.771 | 0.9989 | 1.0 | 1.0 | 0.9976 | 0.768 |
| 2000 | 0.7 | 1 | 0.9996 | 0.9814 | 0.9988 | 1.0 | 1.0 | 0.9971 | 0.977 |
| 2000 | 0.5 | 1 | 1.0 | 0.914 | 0.9982 | 1.0 | 1.0 | 0.9974 | 0.91 |