

Weekly Meeting

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IHEP

7/20/2015

Limits for hMSSM

mass	observed	p2s	p1s	median	m1s	m2s
260	1.66729 +/- 0.00755187	2.08356	1.37886	0.997143	0.744512	0.213737
270	1.61077 +/- 0.00844716	2.8523	1.92069	1.41815	1.08213	0.833149
280	1.55632 +/- 0.0111148	2.55953	1.74833	1.24928	0.931177	0.735523
285	1.81284 +/- 0.00882502	2.55949	1.76282	1.25193	0.941066	0.687835
290	1.72634 +/- 0.00635888	2.62434	1.78165	1.29651	0.961297	0.735944
295	1.59398 +/- 0.00661938	2.57095	1.76075	1.2449	0.935707	0.710877
300	1.74551 +/- 0.00548205	2.47633	1.70464	1.19716	0.904596	0.558379
305	1.21695 +/- 0.00796691	2.3805	1.62403	1.15459	0.85929	0.657631
310	1.22678 +/- 0.00591873	2.31295	1.57635	1.12296	0.838828	0.683968
315	1.31479 +/- 0.00988244	2.28625	1.55051	1.13296	0.850892	0.657657
320	1.3309 +/- 0.00588446	2.16857	1.4628	1.05765	0.803301	0.639858
325	1.77667 +/- 0.0197628	2.16625	1.4902	1.06959	0.809986	0.592892
330	1.55819 +/- 0.0066034	2.20787	1.4867	1.0812	0.875635	0.694431
340	1.50402 +/- 0.00586261	1.99711	1.3449	0.996973	0.764278	0.636446
350	1.39955 +/- 0	1.7882	1.21458	0.877064	0.680095	0.560371
360	0.952382 +/- 0.00492675	1.63851	1.10383	0.797589	0.624842	0.520501
380	1.09338 +/- 0.00431138	1.42745	0.980725	0.711638	0.55674	0.457179
400	0.75351 +/- 0.00290289	1.04449	0.708752	0.5205	0.39604	0.343832
420	0.668146 +/- 0.00307983	0.940534	0.637083	0.463533	0.35617	0.298775
440	0.641885 +/- 0.00284858	0.877982	0.590748	0.42915	0.335505	0.27467
460	0.628364 +/- 0.00301173	0.834474	0.56074	0.41086	0.317111	0.264298
480	0.604284 +/- 0.00253259	0.775471	0.520203	0.376324	0.295827	0.247408
500	0.56725 +/- 0.00286924	0.728609	0.485172	0.357369	0.281951	0.25243

Limits of lowtbhigh

mass	observed	p2s	p1s	median	m1s	m2s
260	1.68988 +/- 0.00734333	2.10334	1.3979	1.00573	0.773917	0.226455
270	1.55654 +/- 0.0064877	2.73288	1.83436	1.36382	1.0056	0.81505
280	1.5617 +/- 0.00607141	2.56613	1.75932	1.28414	0.948221	0.752107
285	1.81439 +/- 0.00884505	2.59465	1.75041	1.24444	0.939185	0.703819
290	1.73091 +/- 0.00645885	2.6079	1.78541	1.29007	0.969023	0.755594
295	1.59825 +/- 0.00632933	2.58099	1.75252	1.25958	0.92658	0.71259
300	1.73295 +/- 0.0055928	2.46371	1.68229	1.19462	0.854485	0.604394
305	1.19946 +/- 0.0064061	2.35292	1.59953	1.14107	0.873529	0.690548
310	1.21104 +/- 0.00860831	2.27584	1.53847	1.0959	0.825163	0.671374
315	1.28253 +/- 0.00571108	2.25505	1.52304	1.09283	0.825296	0.660673
320	1.35035 +/- 0.00606215	2.2393	1.4993	1.08383	0.821464	0.658586
325	1.8153 +/- 0.008179	2.24879	1.51145	1.09518	0.862201	0.649179
330	1.50809 +/- 0.00562174	2.15894	1.45629	1.06443	0.830124	0.67799
340	1.5123 +/- 0.00535483	1.99669	1.352	1.00277	0.761451	0.618477
350	1.379 +/- 0.00491991	1.75718	1.1929	0.876366	0.681683	0.53382
360	0.925151 +/- 0.00502985	1.61227	1.07654	0.780547	0.606602	0.52136
380	1.12423 +/- 0.00436902	1.48718	1.00011	0.743104	0.576363	0.468691
400	0.733479 +/- 0.00302924	1.03444	0.699386	0.517793	0.381372	0.330246
420	0.668132 +/- 0.00283498	0.949958	0.637932	0.454241	0.358322	0.291962
440	0.641905 +/- 0.00309279	0.881199	0.597654	0.432862	0.329835	0.293559
460						
480	0.582027 +/- 0.00268348	0.758352	0.513498	0.372445	0.295852	0.244372
500	0.578569 +/- 0.00297464	0.744438	0.495896	0.370394	0.287592	0.251208

Limits of bbbb

mass	p2s	p1s	m1s	m2s	median	observed
500	0.427408	0.291508	0.137739	0.102599	0.191157	0.162851
520	0.328135	0.229568	0.110054	0.081977	0.152734	0.181265
540	0.277429	0.195073	0.094125	0.070112	0.130629	0.127597
560	0.228872	0.161954	0.0783	0.058324	0.108666	0.098918
580	0.186377	0.131094	0.063061	0.046973	0.087518	0.089104
600	0.158279	0.110268	0.052673	0.039235	0.0731	0.072378
620	0.142994	0.100222	0.048043	0.035786	0.066675	0.060741
640	0.127422	0.088706	0.042326	0.031528	0.058741	0.04512
660	0.115768	0.080274	0.03819	0.028447	0.053	0.039953
680	0.106048	0.073156	0.034631	0.025796	0.048062	0.039664
700	0.095225	0.065048	0.030596	0.022791	0.042462	0.037905
720	0.088585	0.060165	0.028208	0.021012	0.039148	0.03588
740	0.082747	0.055991	0.026139	0.01947	0.036276	0.033336
760	0.077091	0.051827	0.024104	0.017954	0.033452	0.033029
780	0.071777	0.047954	0.022141	0.016492	0.030727	0.039477
800	0.067271	0.044795	0.02051	0.015277	0.028464	0.04502
820	0.063842	0.042307	0.019261	0.014347	0.026731	0.046547
840	0.064836	0.044715	0.019968	0.014873	0.027711	0.042288
860	0.059275	0.038681	0.017638	0.013138	0.024478	0.031775
880	0.057489	0.037254	0.016997	0.012661	0.023589	0.020753
900	0.05453	0.035159	0.015943	0.011876	0.022126	0.01485
920	0.053754	0.03452	0.015612	0.011629	0.021667	0.013124
940	0.051494	0.032735	0.014697	0.010948	0.020397	0.011806
960	0.05028	0.03183	0.014229	0.010599	0.019747	0.011261
980	0.049296	0.031062	0.013844	0.010312	0.019214	0.011064
1000	0.047628	0.029963	0.013344	0.009939	0.018519	0.010729

Test the observed limit at 320Gev of Combined ones

mass	observed	p2s	p1s	median	m1s	m2s
320	1.48775 +/- 0	2.16532	1.48607	1.0854	0.869352	0.691319

