

Chargino Neutralino Cross Section vs Chargino mass as used by CMS in SUS12022

Chargino Neutralino (sum of Chargino+ Neutralino and Chargino-Neutralino)

Mass	Cross Section [pb]	Uncertainty [pb]
100	1.11E+01	7.81E-01
105	9.20E+00	6.26E-01
110	7.71E+00	5.06E-01
115	6.52E+00	4.18E-01
120	5.55E+00	3.50E-01
125	4.76E+00	2.84E-01
130	4.12E+00	2.55E-01
135	3.55E+00	2.04E-01
140	3.10E+00	1.72E-01
145	2.71E+00	1.54E-01
150	2.39E+00	1.26E-01
155	2.11E+00	1.18E-01
160	1.86E+00	9.32E-02
165	1.66E+00	8.71E-02
170	1.48E+00	7.51E-02
175	1.32E+00	6.72E-02
180	1.18E+00	5.87E-02
185	1.06E+00	5.25E-02
190	9.60E-01	4.61E-02
195	8.69E-01	4.07E-02
200	7.85E-01	3.73E-02
205	7.12E-01	3.26E-02
210	6.47E-01	3.00E-02
215	5.88E-01	2.73E-02
220	5.36E-01	2.37E-02
225	4.91E-01	2.14E-02
230	4.47E-01	1.99E-02
235	4.11E-01	1.72E-02
240	3.77E-01	1.65E-02
245	3.46E-01	1.50E-02
250	3.18E-01	1.42E-02
255	2.93E-01	1.27E-02
260	2.68E-01	1.15E-02
265	2.49E-01	1.09E-02
270	2.30E-01	9.62E-03
275	2.13E-01	9.15E-03
280	1.97E-01	8.70E-03
285	1.82E-01	7.52E-03
290	1.71E-01	7.28E-03
295	1.58E-01	6.99E-03
300	1.46E-01	6.61E-03
305	1.36E-01	5.81E-03

310	1.27E-01	5.30E-03
315	1.18E-01	4.94E-03
320	1.10E-01	4.62E-03
325	1.02E-01	4.36E-03
330	9.56E-02	4.08E-03
335	8.94E-02	3.83E-03
340	8.37E-02	3.56E-03
345	7.87E-02	3.37E-03
350	7.37E-02	3.13E-03
355	6.90E-02	2.96E-03
360	6.47E-02	2.77E-03
365	6.07E-02	2.62E-03
370	5.76E-02	2.45E-03
375	5.41E-02	2.28E-03
380	4.98E-02	2.21E-03
385	4.73E-02	2.07E-03
390	4.45E-02	1.99E-03
395	4.18E-02	1.78E-03
400	3.93E-02	1.67E-03
405	3.75E-02	1.64E-03
410	3.50E-02	1.59E-03
415	3.30E-02	1.46E-03
420	3.11E-02	1.39E-03
425	2.96E-02	1.31E-03
430	2.77E-02	1.25E-03
435	2.62E-02	1.20E-03
440	2.49E-02	1.10E-03
445	2.33E-02	1.05E-03
450	2.18E-02	1.01E-03
455	2.11E-02	9.90E-04
460	1.97E-02	9.12E-04
465	1.85E-02	8.90E-04
470	1.78E-02	8.31E-04
475	1.67E-02	7.91E-04
480	1.56E-02	7.53E-04
500	1.25E-02	6.27E-04
525	9.65E-03	5.02E-04
550	7.61E-03	4.01E-04
575	5.93E-03	3.28E-04
600	4.74E-03	2.73E-04
625	3.57E-03	2.10E-04
650	2.88E-03	1.80E-04
675	2.27E-03	1.48E-04
700	1.85E-03	1.25E-04
725	1.47E-03	1.05E-04
750	1.13E-03	8.20E-05
775	9.04E-04	6.88E-05
800	7.25E-04	5.79E-05
825	5.81E-04	4.91E-05
850	4.67E-04	4.06E-05

875	3.77E-04	3.48E-05
900	2.91E-04	2.75E-05
925	2.45E-04	2.46E-05
950	1.90E-04	1.99E-05
975	1.60E-04	1.76E-05
1000	1.30E-04	1.49E-05
1025	9.70E-05	1.14E-05
1050	8.53E-05	1.07E-05
1075	7.46E-05	1.04E-05
1100	5.57E-05	7.99E-06
1125	4.52E-05	6.89E-06
1150	3.99E-05	6.62E-06
1175	2.54E-05	4.31E-06
1200	2.41E-05	4.33E-06
1225	1.80E-05	3.40E-06
1250	1.47E-05	2.91E-06
1275	1.29E-05	2.75E-06
1300	1.13E-05	2.64E-06
1325	9.17E-06	2.30E-06
1350	6.81E-06	1.81E-06
1375	7.19E-06	2.15E-06
1400	4.45E-06	1.37E-06
1425	3.92E-06	1.33E-06
1450	2.69E-06	9.66E-07
1475	1.85E-06	7.27E-07
1500	1.74E-06	7.52E-07
1525	1.64E-06	7.78E-07
1550	1.12E-06	5.72E-07
1575	8.91E-07	5.01E-07
1600	7.10E-07	4.37E-07
1625	5.62E-07	3.83E-07
1650	4.47E-07	3.28E-07
1675	4.18E-07	3.34E-07
1700	3.34E-07	2.84E-07
1725	2.24E-07	2.05E-07
1750	1.52E-07	1.52E-07
1775	1.46E-07	1.46E-07
1800	1.21E-07	1.21E-07
1825	1.40E-07	1.40E-07
1850	8.20E-08	8.20E-08
1875	5.84E-08	5.84E-08
1900	6.57E-08	6.57E-08
1925	4.55E-08	4.55E-08
1950	4.38E-08	4.38E-08
1975	4.36E-08	4.36E-08
2000	2.94E-08	2.94E-08

Chargino+ Neutralino

Mass	Cross Section [pb]	Uncertainty [pb]
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100	7.070000e+00	4.863176e-01
105	5.890000e+00	3.932717e-01
110	4.960000e+00	3.195473e-01
115	4.210000e+00	2.677732e-01
120	3.600000e+00	2.257290e-01
125	3.100000e+00	1.848786e-01
130	2.690000e+00	1.629154e-01
135	2.330000e+00	1.320641e-01
140	2.040000e+00	1.112893e-01
145	1.790000e+00	9.990207e-02
150	1.580000e+00	8.002465e-02
155	1.400000e+00	7.814384e-02
160	1.240000e+00	5.916109e-02
165	1.110000e+00	5.742768e-02
170	9.900000e-01	4.920053e-02
175	8.870000e-01	4.455581e-02
180	7.970000e-01	3.826233e-02
185	7.190000e-01	3.476114e-02
190	6.510000e-01	3.056943e-02
195	5.910000e-01	2.731393e-02
200	5.350000e-01	2.463968e-02
205	4.860000e-01	2.148108e-02
210	4.430000e-01	2.007604e-02
215	4.040000e-01	1.801074e-02
220	3.690000e-01	1.587652e-02
225	3.390000e-01	1.458604e-02
230	3.090000e-01	1.330455e-02
235	2.850000e-01	1.146354e-02
240	2.620000e-01	1.105857e-02
245	2.410000e-01	1.003790e-02
250	2.220000e-01	9.652981e-03
255	2.050000e-01	8.601722e-03
260	1.880000e-01	7.657696e-03
265	1.750000e-01	7.409231e-03
270	1.620000e-01	6.473432e-03
275	1.500000e-01	6.206211e-03
280	1.390000e-01	5.981812e-03
285	1.290000e-01	5.031329e-03
290	1.210000e-01	4.997198e-03
295	1.120000e-01	4.810481e-03
300	1.040000e-01	4.620926e-03
305	9.730000e-02	3.945574e-03
310	9.070000e-02	3.606896e-03
315	8.470000e-02	3.337444e-03
320	7.910000e-02	3.101141e-03
325	7.360000e-02	2.969285e-03
330	6.880000e-02	2.727826e-03
335	6.440000e-02	2.569179e-03
340	6.040000e-02	2.402778e-03
345	5.690000e-02	2.267697e-03

350	5.340000e-02	2.144587e-03
355	5.010000e-02	2.013708e-03
360	4.700000e-02	1.862697e-03
365	4.420000e-02	1.774172e-03
370	4.200000e-02	1.633178e-03
375	3.950000e-02	1.563710e-03
380	3.640000e-02	1.518893e-03
385	3.460000e-02	1.388722e-03
390	3.260000e-02	1.331904e-03
395	3.070000e-02	1.214018e-03
400	2.890000e-02	1.131480e-03
405	2.760000e-02	1.091159e-03
410	2.580000e-02	1.093801e-03
415	2.430000e-02	9.905962e-04
420	2.300000e-02	9.494109e-04
425	2.190000e-02	8.908604e-04
430	2.050000e-02	8.455829e-04
435	1.940000e-02	8.166313e-04
440	1.850000e-02	7.423614e-04
445	1.730000e-02	7.017501e-04
450	1.620000e-02	6.860287e-04
455	1.570000e-02	6.791850e-04
460	1.470000e-02	6.122598e-04
465	1.380000e-02	6.054928e-04
470	1.330000e-02	5.569881e-04
475	1.250000e-02	5.368508e-04
480	1.170000e-02	5.097087e-04
500	9.420000e-03	4.238261e-04
525	7.280000e-03	3.366263e-04
550	5.770000e-03	2.731595e-04
575	4.510000e-03	2.191075e-04
600	3.620000e-03	1.821688e-04
625	2.730000e-03	1.402072e-04
650	2.210000e-03	1.202416e-04
675	1.750000e-03	9.907158e-05
700	1.430000e-03	8.272134e-05
725	1.140000e-03	7.046144e-05
750	8.760000e-04	5.445675e-05
775	7.020000e-04	4.557576e-05
800	5.640000e-04	3.830591e-05
825	4.530000e-04	3.232533e-05
850	3.650000e-04	2.685222e-05
875	2.950000e-04	2.308675e-05
900	2.280000e-04	1.808423e-05
925	1.920000e-04	1.624652e-05
950	1.490000e-04	1.307138e-05
975	1.260000e-04	1.159725e-05
1000	1.020000e-04	9.778240e-06
1025	7.630000e-05	7.424632e-06
1050	6.710000e-05	6.962827e-06

1075	5.870000e-05	6.768157e-06
1100	4.380000e-05	5.129379e-06
1125	3.550000e-05	4.427412e-06
1150	3.130000e-05	4.291607e-06
1175	1.990000e-05	2.740070e-06
1200	1.890000e-05	2.742489e-06
1225	1.410000e-05	2.138381e-06
1250	1.150000e-05	1.811821e-06
1275	1.010000e-05	1.719643e-06
1300	8.860000e-06	1.668631e-06
1325	7.170000e-06	1.456334e-06
1350	5.330000e-06	1.142561e-06
1375	5.610000e-06	1.390538e-06
1400	3.470000e-06	8.795559e-07
1425	3.060000e-06	8.619625e-07
1450	2.090000e-06	6.301960e-07
1475	1.440000e-06	4.788260e-07
1500	1.350000e-06	5.055624e-07
1525	1.270000e-06	5.277939e-07
1550	8.650000e-07	3.905286e-07
1575	6.910000e-07	3.464989e-07
1600	5.500000e-07	3.043359e-07
1625	4.360000e-07	2.697988e-07
1650	3.460000e-07	2.319197e-07
1675	3.220000e-07	2.376519e-07
1700	2.550000e-07	2.055244e-07
1725	1.700000e-07	1.503515e-07
1750	1.140000e-07	1.136259e-07
1775	1.098886e-07	1.098886e-07
1800	9.131626e-08	9.131626e-08
1825	1.056695e-07	1.056695e-07
1850	6.217691e-08	6.217691e-08
1875	4.441575e-08	4.441575e-08
1900	5.008888e-08	5.008888e-08
1925	3.475994e-08	3.475994e-08
1950	3.357540e-08	3.357540e-08
1975	3.347130e-08	3.347130e-08
2000	2.258929e-08	2.258929e-08

Chargino- Neutralino

Mass	Cross Section [pb]	Uncertainty [pb]
100	4.019153e+00	2.951105e-01
105	3.309197e+00	2.330350e-01
110	2.754310e+00	1.864363e-01
115	2.309394e+00	1.500854e-01
120	1.945054e+00	1.239168e-01
125	1.659389e+00	9.895457e-02
130	1.434150e+00	9.171583e-02
135	1.224930e+00	7.161628e-02

140	1.064614e+00	6.066342e-02
145	9.235344e-01	5.410340e-02
150	8.079838e-01	4.629344e-02
155	7.074815e-01	4.033433e-02
160	6.216521e-01	3.406275e-02
165	5.496193e-01	2.966668e-02
170	4.871192e-01	2.589110e-02
175	4.321440e-01	2.267783e-02
180	3.851922e-01	2.039066e-02
185	3.446645e-01	1.771530e-02
190	3.088300e-01	1.548910e-02
195	2.778673e-01	1.343266e-02
200	2.502323e-01	1.265101e-02
205	2.256742e-01	1.107182e-02
210	2.037555e-01	9.889655e-03
215	1.842968e-01	9.283340e-03
220	1.668337e-01	7.796101e-03
225	1.518188e-01	6.851517e-03
230	1.377961e-01	6.554188e-03
235	1.260000e-01	5.702037e-03
240	1.147909e-01	5.461474e-03
245	1.050947e-01	4.993709e-03
250	9.589456e-02	4.552337e-03
255	8.786199e-02	4.135619e-03
260	8.022549e-02	3.869668e-03
265	7.404288e-02	3.466664e-03
270	6.811681e-02	3.150537e-03
275	6.276144e-02	2.941012e-03
280	5.751817e-02	2.717324e-03
285	5.334174e-02	2.485795e-03
290	4.954497e-02	2.285735e-03
295	4.557559e-02	2.175772e-03
300	4.192331e-02	1.990183e-03
305	3.903372e-02	1.861396e-03
310	3.618107e-02	1.696754e-03
315	3.356162e-02	1.605292e-03
320	3.120213e-02	1.515749e-03
325	2.882494e-02	1.387923e-03
330	2.681284e-02	1.354125e-03
335	2.496928e-02	1.255889e-03
340	2.327544e-02	1.159434e-03
345	2.179942e-02	1.101619e-03
350	2.033198e-02	9.880333e-04
355	1.893638e-02	9.431286e-04
360	1.774430e-02	9.120168e-04
365	1.654535e-02	8.419713e-04
370	1.564858e-02	8.161093e-04
375	1.458293e-02	7.174841e-04
380	1.340156e-02	6.950147e-04
385	1.270918e-02	6.797226e-04

390	1.191210e-02	6.565698e-04
395	1.114137e-02	5.616671e-04
400	1.044286e-02	5.407239e-04
405	9.940439e-03	5.444761e-04
410	9.213225e-03	4.936611e-04
415	8.660220e-03	4.706389e-04
420	8.137940e-03	4.451904e-04
425	7.733186e-03	4.220223e-04
430	7.201156e-03	4.017779e-04
435	6.774427e-03	3.834410e-04
440	6.442243e-03	3.598004e-04
445	6.006993e-03	3.453093e-04
450	5.597056e-03	3.212147e-04
455	5.386370e-03	3.112875e-04
460	5.028315e-03	2.997509e-04
465	4.694616e-03	2.841272e-04
470	4.525936e-03	2.735204e-04
475	4.224824e-03	2.544289e-04
480	3.947694e-03	2.434712e-04
500	3.119809e-03	2.032034e-04
525	2.369840e-03	1.648794e-04
550	1.844436e-03	1.277291e-04
575	1.416083e-03	1.092582e-04
600	1.122872e-03	9.118457e-05
625	8.355851e-04	7.024377e-05
650	6.670105e-04	5.930878e-05
675	5.235510e-04	4.870023e-05
700	4.211928e-04	4.200323e-05
725	3.324839e-04	3.474183e-05
750	2.536540e-04	2.752812e-05
775	2.017605e-04	2.325295e-05
800	1.607215e-04	1.955946e-05
825	1.282294e-04	1.673354e-05
850	1.024882e-04	1.376978e-05
875	8.224403e-05	1.169915e-05
900	6.334541e-05	9.429240e-06
925	5.301678e-05	8.383880e-06
950	4.090904e-05	6.790753e-06
975	3.437398e-05	5.977661e-06
1000	2.778600e-05	5.099592e-06
1025	2.074716e-05	4.013463e-06
1050	1.823688e-05	3.752054e-06
1075	1.594757e-05	3.608451e-06
1100	1.193507e-05	2.858776e-06
1125	9.687472e-06	2.462864e-06
1150	8.569005e-06	2.328095e-06
1175	5.454165e-06	1.565799e-06
1200	5.203687e-06	1.587920e-06
1225	3.896416e-06	1.263619e-06
1250	3.163212e-06	1.094228e-06

1275	2.787916e-06	1.033519e-06
1300	2.460153e-06	9.760015e-07
1325	1.998197e-06	8.407109e-07
1350	1.483940e-06	6.702542e-07
1375	1.577789e-06	7.631194e-07
1400	9.760695e-07	4.911837e-07
1425	8.645185e-07	4.645400e-07
1450	5.951779e-07	3.356696e-07
1475	4.109924e-07	2.480428e-07
1500	3.873132e-07	2.462090e-07
1525	3.673602e-07	2.498135e-07
1550	2.500849e-07	1.812895e-07
1575	2.000495e-07	1.547150e-07
1600	1.596385e-07	1.327030e-07
1625	1.264311e-07	1.135792e-07
1650	1.012125e-07	9.638589e-08
1675	9.587545e-08	9.587545e-08
1700	7.877905e-08	7.877905e-08
1725	5.446640e-08	5.446640e-08
1750	3.815853e-08	3.815853e-08
1775	3.656765e-08	3.656765e-08
1800	3.002051e-08	3.002051e-08
1825	3.456768e-08	3.456768e-08
1850	1.986212e-08	1.986212e-08
1875	1.397931e-08	1.397931e-08
1900	1.566107e-08	1.566107e-08
1925	1.076775e-08	1.076775e-08
1950	1.025581e-08	1.025581e-08
1975	1.009061e-08	1.009061e-08
2000	6.769088e-09	6.769088e-09

NloNll

This topic: LHCPHysics > SUSYCrossSections8TeVcharginoneutralinoCMS

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