

seuils SBF.xlsx - Microsoft Excel

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IF $=\text{MIN}(\text{ROUND}((\text{D}\$1/100000000)/\text{POWER}(\text{A11}/450,1.7),0),\text{C}\$3)$

	A	B	C	D	E	F	G	H	I	J	K
1	Energy		Normal_Seuil= 1e12	Relaxed_Seuil= 5e12	V relaxed_Seuil= 1.3e13	Ions_Seuil= 2.5e11					
2	[GeV]	Hexa [120 MeV]	[1e8]	Hexa [1e8]	[1e8]	Hexa [1e8]	[1e8]	Hexa [1e8]	[1e8]	Hexa [1e8]	
3	0	0	5000	1388	5000	1388	5000	1388	5000	1388	
4	122.88	400	5000	1388	5000	1388	5000	1388	5000	1388	
5	245.76	800	5000	1388	5000	1388	5000	1388	5000	1388	
6	368.64	C00	5000	1388	5000	1388	5000	1388	3509	DB5	
7	491.52	1000	5000	1388	5000	1388	5000	1388	2152	868	
8	614.4	1400	5000	1388	5000	1388	5000	1388	1472	5C0	
9	737.28	1800	4320	10E0	5000	1388	5000	1388	1080	438	
10	860.16	1C00	3324	CFC	5000	1388	5000	1388	831	33F	
11	983.04	2000	$=\text{MIN}(\text{ROUND}((\text{D}\$1/100000000)/\text{POWER}(\text{A11}/450,1.7),0),\text{C}\$3)$			1388	1388	1388	662	296	
12	1105.92	2400	2168	878	5000	1388	5000	1388	542	21E	
13	1228.8	2800	1813	715	5000	1388	5000	1388	453	1C5	
14	1351.68	2C00	1542	606	5000	1388	5000	1388	385	181	
15	1474.56	3000	1330	532	5000	1388	5000	1388	332	14C	
16	1597.44	3400	1160	488	5000	1388	5000	1388	290	122	
17	1720.32	3800	1023	3FF	5000	1388	5000	1388	256	100	
18	1843.2	3C00	910	38E	4549	11C5	5000	1388	227	E3	
19	1966.08	4000	815	32F	4077	FED	5000	1388	204	CC	
20	2088.96	4400	735	2DF	3677	E5D	5000	1388	184	B8	
21	2211.84	4800	667	29B	3337	D09	5000	1388	167	A7	
22	2334.72	4C00	609	261	3044	BE4	5000	1388	152	98	
23	2457.6	5000	558	22E	2790	AE6	5000	1388	139	8B	
24	2580.48	5400	514	202	2568	A08	5000	1388	128	80	
25	2703.36	5800	474	1DA	2372	944	5000	1388	119	77	
26	2826.24	5C00	440	1B8	2200	898	5000	1388	110	6E	
27	2949.12	6000	409	199	2046	7FE	5000	1388	102	66	
28	3072	6400	382	17E	1909	775	4964	1364	95	5F	
29	3194.88	6800	357	165	1786	6FA	4643	1223	89	59	
30	3317.76	6C00	335	14F	1675	68B	4355	1103	84	54	
31	3440.64	7000	315	13B	1575	627	4094	FFC	79	4F	
32	3563.52	7400	297	129	1483	5CB	3857	F11	74	4A	
33	3686.4	7800	280	118	1400	578	3641	E39	70	46	
34	3809.28	7C00	265	109	1324	52C	3443	D73	66	42	
35	3932.16	8000	251	FB	1255	4E7	3262	CBE	63	3F	
36	4055.04	8400	238	EE	1191	4A7	3096	C18	60	3C	
37	4177.92	8800	226	E2	1132	46C	2943	B7F	57	39	
38	4300.8	8C00	215	D7	1077	435	2801	AF1	54	36	
39	4423.68	9000	205	CD	1027	403	2670	A6E	51	33	
40	4546.56	9400	196	C4	980	3D4	2549	9F5	49	31	
41	4669.44	9800	187	BB	937	3A9	2436	984	47	2F	
42	4792.32	9C00	179	B3	896	380	2331	91B	45	2D	
43	4915.2	A000	172	AC	859	35B	2232	8B8	43	2B	
44	5038.08	A400	165	A5	823	337	2141	85D	41	29	
45	5160.96	A800	158	9E	790	316	2055	807	40	28	
46	5283.84	AC00	152	98	759	2F7	1974	7B6	38	26	
47	5406.72	B000	146	92	730	2DA	1899	76B	37	25	
48	5529.6	B400	141	8D	703	2BF	1827	723	35	23	
49	5652.48	B800	135	87	677	2A5	1760	6E0	34	22	
50	5775.36	BC00	131	83	653	28D	1697	6A1	33	21	
51	5898.24	C000	126	7E	630	276	1637	665	31	1F	
52	6021.12	C400	122	7A	608	260	1581	62D	30	1E	
53	6144	C800	118	76	588	24C	1528	5F8	29	1D	

$$THD = I \times \left[\frac{E}{450 \text{ GeV}} \right]^{1.7}$$



$$I = \text{Min} \left(\frac{THD}{\left[\frac{E}{450 \text{ GeV}} \right]^{1.7}}, 5^{11} \right)$$