

Standard Model of

The Standard Model summarizes the current knowledge in Particle Physics. It is the quantum theory that includes the Theory of strong interactions (Quantum Chromodynamics or QCD) and the unified theory of weak and electromagnetic interactions (Electroweak). Gravity is related to the other theories as it is one of the fundamental interactions, but though not part of the "Standard Model."

FERMIONS

Received 10/1/2003
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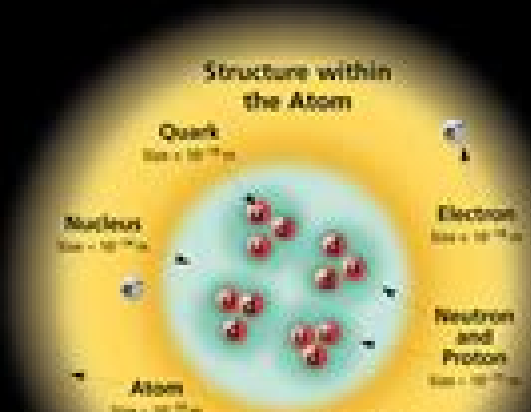
Leptons spin = 1/2		
Flavour	Mass GeV/c²	Electric charge
ν_e electron neutrino	$< 1 \times 10^{-6}$	0
e^- electron	0.000511	-1
ν_μ muon neutrino	< 0.0001	0
μ^- muon	0.106	-1
ν_τ tau neutrino	< 0.01	0
τ^- tau	1.7771	-1

Quarks spin = 1/2		
Flavor	Approx. Mass (GeV) ^c	Electric charge
u up	0.002	2/3
d down	0.005	-1/3
c charm	1.3	2/3
s strange	0.1	-1/3
t top	175	2/3
b bottom	4.2	-1/3

Here τ is the interval between measurements of particles, τ_{int} is given in units of τ , which is the maximum time of particle interaction, $\lambda_{\text{int}} = \lambda_{\text{int}}^{\text{int}} / \tau = 0.001$ and $\lambda_{\text{ext}} = \lambda_{\text{ext}}^{\text{ext}} / \tau = 0.001$ [16].

Monetary charges are given in units of the positive charge of q units. The electric charge of the electron is -1.60×10^{-19} coulombs.

The energy unit of particle physics is the electronvolt (eV), the energy gained by one electron in crossing a potential difference of one volt. Masses are given in GeV/c^2 (remember $E = mc^2$), where $1 \text{ GeV} = 10^9 \text{ eV} = 1.60 \times 10^{-10} \text{ joule}$. The mass of the proton is $0.938 \text{ GeV}/c^2 = 1.67 \times 10^{-27} \text{ kg}$.



27. The authors are indebted to the referees for their comments. These are gratefully acknowledged. The first two authors are now at the Department of Mathematics, University of Toronto, Canada.

BOSONS

Poster sessions:
Sunday 10, 1-3

Unified Electroweak $g_{\text{unif}} = 1$		
Name	Mass GeV 2	Electric charge
γ photon	0	0
$W^\pm$	80.4	± 1
Z^0	91.187	0

Strong (order) spin = 1		
Name	Mass GeV ²	Electric charge
 gluon	0	0

Color Change
Both gold and silver are of the category of "strong change," also called "color change." These changes have nothing to do with the colors of visible light. There are eight possible

only charged particles interact by exchanging photons, it being reasonable to charge particles interact by exchanging gluons, leptons, photons, and W and Z bosons (see Fig. 1). Strong interactions are described by the exchange of gluons, which are the carriers of the strong force.

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Radishes. The conventional thinking made many multiple generations of plants among the other European countries. In Italy, dwarfed radishes (small and round) were used as a vegetable, but in the United States, they were used as a garnish. The dwarf radishes were used as a garnish in the United States, but in Europe, they were used as a vegetable. The dwarf radishes were used as a garnish in the United States, but in Europe, they were used as a vegetable. The dwarf radishes were used as a garnish in the United States, but in Europe, they were used as a vegetable.

Keywords: child sexual abuse; disclosure; social support

The strong binding of zinc (cadmium) proteins and residues to their nuclei is due to mutual strong interactions between their color-charged coefficients. It is similar to the mutual electrostatic interaction, that binds electrically charged atoms to their molecules. It can also be related to the structure of chains between the helices.

PROPERTIES OF THE INTERACTIONS

Ergonomics and Anthropometrics					
Keynotes are "human factors" locations. There are about 100 more of Ergonomics.					
Symbol	Form	Shape category	Element category	Weight factor?	Unit
σ	point	used	1	0.008	0.0
β	area	used	-1	0.008	0.0
π	line	used	0	0.040	0.0
Λ	line	used	0	0.008	0.0
Ω	shape	new	-1	0.008	0.0

Property \ Interaction	Gravitational	Weak (Intermediate)	Electromagnetic	Strong	
				Fundamental	Residual
Acts on	Mass + Energy	Flavor	Electric Charge	Color Charge	See Residual Strong Interaction Table
Particles experiencing	All	Quarks, Leptons	Electrically charged	Quarks, Gluons	Hadrons
Particles mediating	Graviton (not yet observed)	W^+ W^- Z^0	γ	Gluons	Mesons
Strength: α (electromagnetic) or α_s (strong) is quarks at	10^{-42} 10^{-39}	0.8 10^{-4}	1 1	25 60	Not applicable to quarks
or: how protons in nucleus	10^{-36}	10^{-2}	1	Not applicable to hadrons	20

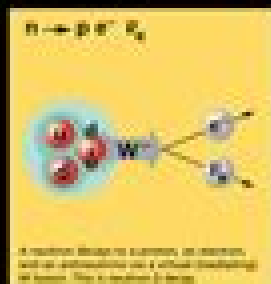
Mesons of					
Mesons of Various Quark Combinations					
There are about 100 types of mesons.					
Symbol	Quark	Antiquark	Charge	Mass (GeV/c ²)	Spin
π^+	u	$\bar{d}$	+	0.140	0
K^+	u	$\bar{s}$	+	0.494	0
ρ^+	u	$\bar{d}$	+	0.770	1
η^0	u, d, s	$\bar{u}, \bar{d}, \bar{s}$	0	0.548	0
η'	u, d, s	$\bar{u}, \bar{d}, \bar{s}$	0	0.950	0

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

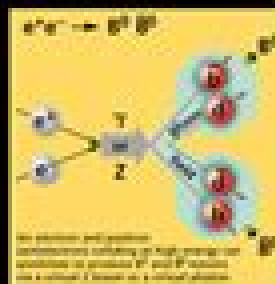
For every particle type there is a corresponding antiparticle type, denoted by a bar over the particle symbol (baryon $\bar{b}$ or $\bar{\nu}$ change is shown). Particles and antiparticles have identical mass and spin but opposite charges. Some electrically neutral bosons (e.g., Z^0 , γ , and π_0) are their own antiparticles.

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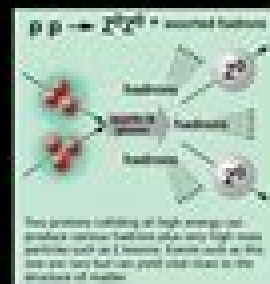
These diagrams are an artist's conception of physical processes. They are not exact and have no measurements with them. Dashed lines represent the chain of events in the time field, and red lines the event itself.



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the patients will receive
antibiotics during or just prior to
surgery to prevent IV and IV catheter
and surgical wound infections.



Two primary building up high energy jet, produce a complex pattern of very high speed particles such as γ rays, X-rays, radio waves, etc. and are very hot and pressurized in the vicinity of the jet.

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