

Elementary Particles

An elementary particle does not consist of smaller subparticles.

		three generations of matter (fermions)			interactions / force carriers (bosons)	
		I	II	III		
<p>Quarks</p> <ul style="list-style-type: none"> • half-integer spin • all 4 interactions <p>Fermions</p> <p>Leptons</p> <ul style="list-style-type: none"> • half-integer spin • no strong interactions 	<p>mass</p> <p>charge</p> <p>spin</p>	<p><2.2 MeV/c²</p> <p>$\frac{2}{3}$</p> <p>$\frac{1}{2}$</p> <p>u</p> <p>up</p>	<p><1.28 GeV/c²</p> <p>$\frac{2}{3}$</p> <p>$\frac{1}{2}$</p> <p>c</p> <p>charm</p>	<p><173.1 GeV/c²</p> <p>$\frac{2}{3}$</p> <p>$\frac{1}{2}$</p> <p>t</p> <p>top</p>	<p>0</p> <p>0</p> <p>0</p> <p>1</p> <p>g</p> <p>gluon</p>	<p><125.11 GeV/c²</p> <p>0</p> <p>0</p> <p>0</p> <p>H</p> <p>higgs</p>
	QUARKS	<p><4.7 MeV/c²</p> <p>$-\frac{1}{3}$</p> <p>$\frac{1}{2}$</p> <p>d</p> <p>down</p>	<p><96 MeV/c²</p> <p>$-\frac{1}{3}$</p> <p>$\frac{1}{2}$</p> <p>s</p> <p>strange</p>	<p><4.18 GeV/c²</p> <p>$-\frac{1}{3}$</p> <p>$\frac{1}{2}$</p> <p>b</p> <p>bottom</p>	<p>0</p> <p>0</p> <p>0</p> <p>1</p> <p>γ</p> <p>photon</p>	<p>SCALAR BOSONS</p> <p>Bosons</p> <ul style="list-style-type: none"> • integer spin • all 4 interactions
	LEPTONS	<p><0.511 MeV/c²</p> <p>-1</p> <p>$\frac{1}{2}$</p> <p>e</p> <p>electron</p>	<p><205.66 MeV/c²</p> <p>-1</p> <p>$\frac{1}{2}$</p> <p>μ</p> <p>muon</p>	<p><1.7768 GeV/c²</p> <p>-1</p> <p>$\frac{1}{2}$</p> <p>τ</p> <p>tau</p>	<p><91.18 GeV/c²</p> <p>0</p> <p>0</p> <p>1</p> <p>Z</p> <p>Z boson</p>	
		<p><1.0 eV/c²</p> <p>0</p> <p>$\frac{1}{2}$</p> <p>ν_e</p> <p>electron neutrino</p>	<p><0.17 MeV/c²</p> <p>0</p> <p>$\frac{1}{2}$</p> <p>ν_μ</p> <p>muon neutrino</p>	<p><18.2 MeV/c²</p> <p>0</p> <p>$\frac{1}{2}$</p> <p>ν_τ</p> <p>tau neutrino</p>	<p><80.360 GeV/c²</p> <p>+1</p> <p>1</p> <p>W</p> <p>W boson</p>	
				<p>GAUGE BOSONS</p> <p>VECTOR BOSONS</p>		

World Of Elementary Particles

VM Jensen



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