



Colour • Colour charge is the charge associated with QCD interactions. • Three colours: red, blue, green. • Like electric charge, it is a conserved quantum number. • Quarks always have a colour charge: **r**, **g** or **b** • Anti-quarks always have an anti-colour charge: **r**, **b** or **g** • Leptons and gauge bosons for the other forces, γ, W, Z don't carry colour charge. • Mesons are colour neutral; colour charges of are: (rr), (bb) or (gg) • Baryons are colour neutral; colour charges are: (**r g b**)



3















