



what happens to $q\bar{q}$ pair?
simple picture

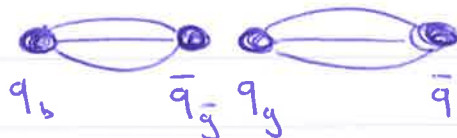


quarks start to separate



think of elastic string between them

strong dipole field builds between them with uniform energy density (due to gluon self interactions)



As separation increases, energy increases.

String breaks up into $q\bar{q}$ pairs

When $E > 2m_q$



As energy decreases bound states form and get mesons and baryons