Figure 1.5. A typical Feynman diagram in quantum field theory. Four external parti-
cles, originating at space–time points A, B, C and D, undergo a tree level scattering
process, the interactions occurring at p and q.

$$\langle y|\square^{-1}|x\rangle = \int\limits_0^\infty d\tau \int\limits_x^y Dx(t)\exp\{-\frac{1}{4}\int\limits_0^\tau dt\,\dot{x}^2\}. \qquad (1.4.2)$$