


```

In[127]:= f[c_, a_, ax_, ay_, az_, x0_, y0_, z0_, x_, y_, z_] :=
  N[c (x - x0)^ax (y - y0)^ay (z - z0)^az E^(-a ((x - x0)^2 + (y - y0)^2 + (z - z0)^2))];
  |数值运算 |自然常数
f1[x_, y_, z_] := f[1, 0.12, 1, 0, 0, 0, 0, 0, x, y, z];
f2[x_, y_, z_] := f[1, 0.23, 1, 0, 0, 0, 0, 0, x, y, z];
f3[x_, y_, z_] := f[1, 0.34, 0, 2, 0, 1, 0, 0, x, y, z];
f4[x_, y_, z_] := f[1, 0.45, 0, 0, 0, 1, 0, 0, x, y, z];
NIntegrate[f1[x1, y1, z1] * f2[x1, y1, z1] * f3[x2, y2, z2] * f4[x2, y2, z2],
  |数值积分
  {x1, -10, 10}, {y1, -10, 10}, {z1, -10, 10}, {x2, -10, 10}, {y2, -10, 10},
  {z2, -10, 10}, MinRecursion -> 5, MaxRecursion -> 6, WorkingPrecision -> 10]
  |最大递归 |工作精度

```

 **NIntegrate:** Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small.

Out[132]= 192.8185830