Kripke - Scattering Kernel

```
for(int nm = 0; nm < num_moments; ++nm)
  for(int g = 0; g < num_groups; ++g)
  for(int gp = 0; gp < num_groups; ++gp)
    for(int zone = 0; zone < num_zones; ++zone)
    for(int mix = z_mixed[z]; mix < z_mixed[z]+num_mixed[z]; ++mix) {
        int material = mixed_material[mix];
        double fraction = mixed_fraction[mix];
        int n = moment_to_coeff[nm];

    #####
        # Address calculation to be included here.
        #####

        *phi_out += *sigs * *phi * fraction;
}</pre>
```



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for(int nm = 0; nm < num moments; ++nm)</pre>

```
datalayout=enum("DZG","DGZ","GDZ","GZD","ZDG","ZGD");
CodeReg Scattering {
  if (datalayout == "DGZ") {
     omploop="0.0.0.0";
  } elif (datalayout == "GDZ") {
     looporder=[1,2,0,3,4];
     omploop="0.0.0.0";
  } elif (datalayout == "GZD") {
     looporder=[1,2,3,4,0];
     omploop="0.0.0";
  } elif (datalayout == "ZGD") {
     looporder=[3,4,1,2,0];
     omploop="0";
  } elif (datalayout == "ZDG") {
     looporder=[3,4,0,1,2];
     omploop="0";
  } elif (datalayout == "DZG") {
     looporder=[0,3,4,1,2];
     omploop="0.0";
  sourcepath="scatter "+datalayout+".txt";
  BuiltIn.Altdesc(stmt="0.0.0.0.0.3", source=sourcepath);
  RoseLocus.Interchange(order=looporder);
  RoseLocus.LICM();
 RoseLocus.ScalarRepl();
  Pragma.OMPFor(loop=omploop);
```

