## **Polydispersity**

The size distribution of particles leads to smearing effects. The scattered intensity reads

<math> I\_

Unknown macro: {poly}  $(q,x) = \int_0^x Unknown macro: {infty}$  G(x,r) I(q,r) dr</math>

where <math> G(x,r)</math> characterizes the distribution function such that <math> \int G(x,r) dr = 1</math>.