

## Ammonium Sulfate Optics wrt RH at 0.55 $\mu\text{m}$ Wavelength

$$\frac{dN}{d \ln r} = \frac{1}{\sqrt{2\pi} \ln \sigma} \exp \left( \frac{-(\ln r - \ln r_{mdn})^2}{2 \ln^2 \sigma} \right),$$

Blue lines in right column are GOCART values for ammonium sulfate provided by Mian Chin;  $r_{mdn} = 0.0695$  and  $\sigma = 2.03$  with a mode cutoff at 0.5  $\mu\text{m}$  maximum radius. Green lines obtained by using hygroscopic growth from Andy Lacis webpage and a lognormal size distribution with various mode radii and widths.



