

### **Gaussian band shape**

A band shape described by the Gaussian function:

$$F(\nu - \nu_0) = (a/\sqrt{\pi}) \exp [-a^2(\nu - \nu_0)^2]$$

In this equation,  $a^{-1}$  is proportional to the width of the band, and  $\nu_0$  is the frequency of the band maximum.

See also *Lorentzian band shape*.

1996, 68, 2244; see also 1990, 62, 2192