Lorentzian band shape
This band shape is described by the function:

$$F(\nu - \nu_0) = (1/\pi)\,\gamma[(\nu - \nu_0)^2 + \gamma^2]^{-1}$$

where ν_0 is the mean band position, γ is the half band width at half maximum, and $F(\nu - \nu_0)$ is the frequency distribution function.

See also *Gaussian band shape*.

1996, *68*, 2252