$$p = 1 - \left\{ 1 - \exp\left[ LP(w) \right] \right\}^{N_{ind}} .$$

Note that you can invert the last expression to determine the value of LP(w) for any significance level.

**See Also**
The **FFT** and **DSPPeriodogram** operations.

**References**
1. J.H. Horne and S.L. Baliunas, *Astrophysical Journal*, 302, 757-763, 1986.

2. N.R. Lomb, *Astrophysics and Space Science*, 39, 447-462, 1976.

3. W.H. Press, B.P. Flannery, S.A. Teukolsky, and W.T. Vetterling, *Numerical Recipes*, 3rd ed., Section 13.8.

# lorentzianNoise

`lorentzianNoise(a,b)`
The function returns a pseudo-random value from a Lorentzian distribution

$$f(x) = \frac{1}{\pi} \frac{(b/2)}{(x-a)^2 + (b/2)^2} .$$

Here *a* is the center and *b* is the full line width at half maximum (FWHM).

**See Also**
**SetRandomSeed**, **enoise**, **gnoise**.

**Noise Functions** on page III-390.

Chapter III-12, **Statistics** for a function and operation overview.

# LowerStr

`LowerStr(str)`
The LowerStr function returns a string expression identical to *str* except that all upper-case ASCII characters are converted to lower-case.

**See Also**
The **UpperStr** function.

# Macro

`Macro macroName([parameters]) [:macro type]`
The Macro keyword introduces a macro. The macro will appear in the Macros menu unless the procedure file has an explicit Macros menu definition. See Chapter IV-4, **Macros** and **Macro Syntax** on page IV-118 for further information.

# MacroInfo

`MacroInfo(macroNameStr)`
The MacroInfo function returns a keyword-value pair list of information about the macro specified by *macroNameStr*.

MacroInfo was added in Igor Pro 9.01.

In this section, "macro" includes all types of interpreted procedures, namely procedures introduced by the **Macro**, **Proc** and **Window** keywords.

**Parameters**
*macroNameStr* is a string expression containing the name of a macro.

If *macroNameStr* is "", MacroInfo returns information about the currently executing macro or "" if no macro is executing.