

## hermiteGauss

### hermiteGauss

**hermiteGauss (n, x)**

The hermiteGauss function returns the normalized Hermite polynomial of order *n*:

$$H_n(x) = \frac{1}{\sqrt{\sqrt{\pi} 2^n n!}} (-1)^n \exp(-x^2) \frac{d^n}{dx^n} \exp(-x^2).$$

Here the normalization was chosen such that

$$\int_{-\infty}^{\infty} e^{-x^2} H_n(x) H_m(x) dx = \delta_{mn},$$

where  $\delta_{nm}$  is the Kronecker symbol.

You can verify the Hermite-Gauss normalization using the following functions:

```
Function TestNormalization(order)
    Variable order

    Variable/G theOrder = order
    // The integrand vanishes in double-precision outside [-30,30]
    Print/D Integrate1D(hermiteIntegrand,-30,30,2)
End

Function HermiteIntegrand(inX)
    Variable inX

    NVAR n = root:theOrder
    return HermiteGauss(n,inX)^2*exp(-inx*inx)
End
```

#### See Also

The **hermite** function.

## hide

**#pragma hide = value**

The hide pragma allows you to make a procedure file invisible.

#### See Also

The **The hide Pragma** on page IV-54 and **#pragma**.

## HideIgorMenus

**HideIgorMenus [MenuNameStr [, MenuNameStr ] ...]**

The HideIgorMenus operation hides the named built-in menus or, if none are explicitly named, hides all built-in menus in the menu bar.

The effect of HideIgorMenus is lost when a new experiment is opened. The state of HideIgorMenus is saved with the experiment.

User-defined menus are not hidden by HideIgorMenus unless attached to built-in menus and the menu definition uses the hideable keyword.

#### Parameters

*MenuNameStr*      The name of an Igor menu, like "File", "Data", or "Graph".

#### Details

The optional menu names are in English and not abbreviated. This ensures that code developed for a localized version of Igor will run on all versions.

The built-in menus that can be shown or hidden (the Help menu can be hidden only on Windows) are those that appear in the menu bar: