
Subject: IDL hilbert() function

Posted by [lecacheux.alain](#) on Sat, 01 Nov 2008 09:14:54 GMT

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Is this function actually computing the Hilbert transform ?

The Hilbert transform is known to be idempotent, i.e. $H(H(x)) = -x$.

However, by applying the IDL function, one get for instance :

IDL> print, hilbert (hilbert (indgen(8)))

```
( 6.00000, 0.000000)( 7.00000, 0.000000)
( 4.00000, 0.000000)( 5.00000, 0.000000)
( 2.00000, 0.000000)( 3.00000, 0.000000)
( 0.000000, 0.000000)( 1.00000, 0.000000)
```
