Subject: Re: Matrix calculus
Posted by Kenneth P. Bowman on Thu, 09 Oct 2008 18:14:24 GMT
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In article
<e842ca8d-f6ce-48c3-af02-772487cefb8f@i18g2000prf.googlegroups.com>,
 jameskuyper@verizon.net wrote:

> Kenneth P. Bowman wrote:
>> In article
>> <2fa450be-1a5e-4efd-a703-b6bb2e879383@k30g2000hse.googlegroups.com>,
>> silviadncl@gmail.com wrote:
>>
>>> How can i compute eigenvalues and eigenvectors of a complex
>>> matrix(hermitian)?
>>> Thank you
>>
>> LA_EIGENQL
>
> The documentation for LA_EIGENQL says that it is for "real
> nonsymmetric or complex non-Hermitian array A". I don't think that
> means that it won't work on real symmetric arrays, or complex
> Hermitian arrays, but it does mean that it wasn't optimized for such
> arrays.
>
> Take a look at <http://idlastro.gsfc.nasa.gov/idl_html_help/
> IMSL_EIG.html>, and in particular, the /SYMMETRIC option.

My IDL Help (6.4.1) says LA_EIGENQL "computes selected eigenvalues and eigenvectors
of an n-by-n real symmetric or complex Hermitian array A".

LA_EIGENPROBLEM and LA_EIGENVEC are for general non-symmetric matrices.

Ken