Subject: Re: MATRIX LOGARITHM (and EXPONENTIAL)
Posted by zhaobw1993 on Wed, 21 Oct 2015 23:04:15 GMT

On Thursday, January 27, 2011 at 5:11:53 PM UTC-7, James wrote:
> On Jan 27, 4:10 pm, James <donje...@gmail.com> wrote:
>>
>> If the matrix A is diagonalizable, then:
>>
>> eigenvals = LA_EIGENPROBLEM(A, EIGENVECTORS=evecs)
>> expA = evecs # diag_matrix(exp(eigenvals)) # invert(evecs)
>> logA = evecs # diag_matrix(alog(eigenvals)) # invert(evecs)
>
> sorry, replace INVERT with LA_INVERT to account for complex
> eigenvectors.

Does logA need to be transposed?
My way was,
evens = transpose(evens)
logA = evecs ## diag_matrix(eigenvalues) ## invert(evecs)
result of this way seems to be transpose of result of your way.

Thanks