
Subject: Re: help to resolve a intricate equation
Posted by [Sven Geier](#) on Sun, 09 Sep 2007 05:09:33 GMT
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highstone wrote:

> hello all
> there is a equation like
> $X^2 + A * X = C + A$
> where X is a matrix to resolve, A is a known matrix, C is a constant
> (actually X,A is a grid image)
>
> is there any method can resolve this type equation such as least-
> squares method or others? can be based on IDL ?
>
> I am not well up in maths, please as particular as possible, thank
> you.

I am probably completely misunderstanding what you're trying to do, but...

$$X^2 + A * X = C + A$$

$$\Rightarrow X^2 - C = A (1 - X)$$

$$\Rightarrow A = (X^2 - C) / (1 - X)$$

but you probably meant something entirely different...

-- S

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<http://www.sgeier.net>

My real email address does not contain any "Z"s.
