
Subject: Re: Force Field

Posted by [panblosky](#) on Wed, 14 Sep 2005 11:03:37 GMT

[View Forum Message](#) <> [Reply to Message](#)

>
> Assuming that you are happy with first-order, centered differences, you
> want something like this
>
> grad_x = (SHIFT(phi, -1, 0) - SHIFT(phi, 1, 0))/(2.0*dx)
> grad_y = (SHIFT(phi, 0, -1) - SHIFT(phi, 0, 1))/(2.0*dy)
>
> where phi is the potential. It think this handles the periodic boundary
> conditions properly, but check to make sure.
>
> Cheers, Ken Bowman

Thanks Ken, it does work, and really fast!!
