Subject: Re: Projection of an emissivity cube
Posted by Craig Markwardt on Thu, 27 May 2004 06:16:02 GMT
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StarObs <starobs99@yahoo.com> writes:

> Hi everybody,
>
> I'm trying to compute the projection on any plane of an emmisivity cube.
> All the routines I found to performe this kind of computation are used
> (and made) by medical imaging scientists, that is quite always a
> question of absorbing along a line of sight a radiation comming from
> somewhere.

If you are having trouble rotating the cube in order to integrate
along the unit axes, then why don't you rotate the axes instead?

You could start with a simple path which traces whatever path you wish
through the cube. Then use INTEPOLATE to sample your cube along the
chosen path. Finally, use TOTAL.

Of course, as with your original method and the above method, you need
to be concerned with conservation of flux issues. I.e. does your
rotated cube / path preserve the total emissivity?

Good luck,
Craig
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