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FW: a useful integral to know

1 message

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Eugene CHIANG has sent you a bSpace Message from Astro 7A Sections:
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Forwarded Message

Authored By CHIANG, Eugene (Sep 12, 2012 4:34 PM)
To All Participants
Subject a useful integral to know
Label Normal

Hello 7A,

Did you know that

Integral (from 0 to infinity) B_nu d nu = Integral (from 0 to infinity) B_lambda d lambda = sigma T^4 / pi

where sigma = Stefan-Boltzmann constant.

It's true! (And don't forget the pi). The units of this are erg / s / cm^2 / sr.

This relation may be useful to you in your career. Enjoy.

Eugene

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