
Subject: Range of "Spherical Coordinates" in SPHER_HARM

Posted by [Karlo Janos](#) on Thu, 09 Oct 2008 12:38:52 GMT

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Hello all!

I am a little bit confused about the usage of spherical coordinates in the function SPHER_HARM.

The first parameter should be the azimuthal angle theta (in the help document named 'polar' or 'colatitudinal') and the second parameter the polar angle phi (in the help document named 'azimuthal' or 'longitudinal').

According to the example code at the end of the help page the range for theta seems to be $[0; \pi]$ as I would have presumed. But what is the range for phi? $[0; 2\pi]$ or $[-\pi; \pi]$? In some functions (where the keyword '/DEGREES' is possible) it must be the latter, relating to the coordinate system of the earth. But what about SPHER_HARM? I did not find any explanation about the definition of theta and phi there.

Does anybody see clearly here?

Greetings

Karlo
