From: "Carl H. Gibson" <<u>ir118@sdcc3.ucsd.edu</u>> Subject: Re: 3D CMB spectrum from the Planck mission data Date: September 25, 2015 at 9:39:10 AM PDT To: Alexander Bershadskii <<u>bershads@gmail.com</u>>

Looks great!

Sent from my iPhone cgibson@UCSD.edu

On Sep 25, 2015, at 6:37 AM, Alexander Bershadskii <<u>bershads@gmail.com</u>> wrote:

Dear Prof. Gibson,

I hope things are going fine with you. Attached please find a file with a 3D CMB spectrum I have calculated from the recent Planck mission data. Astrophysicist used to calculate a spherical spectrum. In the paper 'Physics Letters A 372 (2008) 2741–2745' it is shown how to calculate a straight 3D spectrum from these data (do not mind a physical hypothesis suggested in this paper). That I have done using the file COM_PowerSpect_CMB-TT-hiL-binned_R2.01.txt in the archive http://pla.esac.esa.int/pla/#results. The tail after presumably power spectrum -5/3 is exponential. What do you think?

Best Sasha

<3D-CMB-spectrum.pdf>