

Abstract Submitted
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On the Doppler Deviation between the Temperatures of the Microwave Background Obtained by COBE. DMITRI RABOUNSKI — The COBE satellite, located in a 900 km orbit, gives two temperatures of the Penzias-Wilson microwave background: 2.730 ± 0.001 K measured by the absolute spectrophotometer and 2.717 ± 0.003 K calculated from the temperature of the dipole component (the 1st derivative of the monopole) measured by the differential radiometer. This deviation, 0.013 K, is 10 times exceeding the measurement precision. If, according to the experimental analysis by Robitaille (Prog. Phys., 2007, v.1, 3, 19), the microwave background is generated by the oceans of the Earth, this deviation meets a clear theoretical explanation by Rabounski (Prog. Phys., 2007, v.1, 24) as the Doppler effect of the dipole anisotropy due to the motion of the monopole in common with the source, the Earth, relative to the intergalactic foreground at 365 km/sec. According to this theory, there is no the monopole component at the L2 point (1.5 mln km from the Earth, the position of the WMAP and PLANCK satellites) due to its decrease with altitude. In contrast to WMAP, whose differential instruments target the dipole anisotropy, PLANCK will have on board absolute instruments and be able to give a proof to this theory.

Rabounski Dmitri

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