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Preliminary results on solar wind turbulence radial evolution during ACE and Ulysses alignment of August 2007 (CIP 35)

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In this work, we present preliminary results on the radial evolution of solar wind turbulence taking advantage of a lineup of Venus, Earth and Ulysses occurred at the end of August 2007. This unusual event gives the opportunity to analyse the same plasma sample at three different observation points and to attempt a coordinated study on the radial evolution of solar wind turbulence between 0.7 and 1.4 AU.

Being around the minimum of solar cycle 23, the solar wind profile is characterized by a bi-modal distribution in the ecliptic, due to the fact that coronal holes widen up reaching the equatorial regions and producing an alternation of fast and slow wind streams. This will allow us to study MHD turbulence typical of fast coronal wind, within corotating fast streams.