

# Intertwinements in the determinations of PP and CNO neutrinos

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The great experimental progresses in the determination of solar neutrinos poses us new challenges. We show 1) that a precise determination of the PEP neutrinos is a prerequisite to extract the CNO neutrino signal; conversely, we argue 1) that the empirical determination of PP neutrinos requires to know the CNO neutrinos sufficiently well. For these current and urgent issues, the luminosity constraint plays a key role: we examine it critically, assess its importance and illustrate that it causes the intertwinements in the determinations of PP and CNO neutrinos.

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