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## Neutrino decay and Solar Neutrino Seasonal effect (15' + 2')

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We consider the possibility of solar neutrino decay on their propagation between production and detection. Using current oscillation data, we set a new lower bound to the  $\nu_2$  neutrino lifetime at  $\tau_2 / m_2 \geq 7.2 \times 10^{-4} \text{ s} \cdot \text{eV}^{-1}$  at 99% C.L..

We show that in neutrino decay scenario induce an non-usual seasonal variation in the solar neutrino data.

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