



Wave Packet Description of Neutrino Oscillation in a Progenitor Star Supernova Environment

http://www.firstlight.cn 2007-12-31

In this work we briefly review the wave packet approach of two generation neutrino oscillation, aiming its description in a progenitor s tar supernova environment. We begin calculating the wave packet size in many situations: solar and supernova plasma medium, considering n uclear interactions, as well as accelerators and reactors. This quantity is important to calculate the coherence length, which we compare with the oscillation

length to verify if neutrino oscillation will or will not occur. Finally, we compare the wave packet treatment of neutrino oscillation with the plane wave formalism in a progenitor star supernova environment.

存档文本

我要入编|本站介绍|网站地图|京ICP证030426号|公司介绍|联系方式|我要投稿

北京雷速科技有限公司 版权所有 2003-2008 Email: leisun@firstlight.cn