

Summary of work since 07/17

April 2, 2018

1 Neutrino Flavor Conversions and Dispersion Relation

In 2017, Izaguirre, Reffelt, and Tamborra published a paper discussing the relations between flavor instabilities and dispersion relation. They considered a two flavor sinario of neutrino oscillations and worked out the dispersion relation between the collective oscillation frequency ω and wave vector \vec{k} . They identified the possible correlation between instabilities and gaps, that the gaps of ω in dispersion relations .