

I will discuss the searches for sterile neutrinos and NSI by IceCube experiment. Recently it has been claimed that by considering the NSI in addition to the sterile neutrino, the IceCube's limit on sterile neutrinos can be relaxed; a baroque scenario as it has been called. I will show that this claim is just an artifact originating from the energy cuts of the chosen datasets. Contrary to the claim, by turning on the NSI and fixing the NSI parameters to the proposed values, not only the IceCube's limit on sterile neutrino cannot be alleviated, but in fact the tension will be aggravated (or at least keeps its strength).