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KeV Warm Dark Matter and Composite Neutrinos

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Abstract:

Elementary keV sterile Dirac neutrinos can be a natural ingredient of the composite neutrino scenario. We'll briefly discuss this scenario, and see that these keV sterile neutrinos naturally have the appropriate mixing angles to be resonantly produced warm dark matter (WDM). Alternatively, these sterile neutrinos can be WDM produced by an entropy diluted thermal freeze-out, with the necessary entropy production arising from the confinement of the composite neutrino sector, provided there is sufficient supercooling.

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