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Fertile neutrinos

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Electroweak scale right-handed neutrinos have become a commodity in recent years. Most scenarios involve the so-called sterile neutrino paradigm, where right-handed neutrinos are assumed to be completely neutral under the Standard Model gauge group. A more interesting possibility is - of course - one in which they do interact. Such a fertile (non-sterile) possibility is certainly important phenomenologically and in this talk I will briefly review what has been explored so far for fertile right-handed neutrinos. I will show that they are not only phenomenologically viable but that their general setup provides very appealing theoretical and model building possibilities that I believe have been overlooked.

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