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## **Sterile neutrinos and self-interactions**

*Thursday 10 June 2021 10:40 (20 minutes)*

In this talk, I will discuss the effects of self-interactions on the production of sterile-neutrino dark matter. For the case of self-interacting active neutrinos, the new interaction plays an important role in the resonant production of dark matter. We have analyzed such a scenario in the case of vector and scalar mediators. The case of self-interactions in the sterile sector provides an interesting model of self-interacting dark matter. These models serve as a well-motivated target for the upcoming experimental searches.

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