

# Resonant anti-neutrino electron scattering at the FPF

*Monday 31 January 2022 20:45 (15 minutes)*

We discuss detection prospects for Standard Model resonances at FASER $\nu$  and FLArE. The primary channel of interest is the production of  $\rho^-$  resonances which yield two-pion final states,  $\pi^- \pi^0$ , with no additional hadronic activity and no leptons in the final state. We conclude that FASER $\nu$  (and especially FASER $\nu$ -2) have the best detection prospects due to their nuclear emulsion detector technology.

**Authors:** DE GOUVEA, Andre; PLESTID, Ryan; MACHADO, Pedro (Fermilab); BRDAR, Vedran

**Presenter:** PLESTID, Ryan

**Session Classification:** Neutrino Working Group