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## (G\*) Search for solar neutrino absorption with 40Ar in DEAP-3600

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The DEAP-3600 experiment is a single-phase liquid argon dark matter experiment that uses scintillation light to look for weakly interacting massive particles (WIMPs). In addition to the dark matter search, the detector's properties including low background and argon medium make it a good candidate for a first observation of 8B solar neutrino charged-current interactions on 40Ar. Solar neutrinos with sufficient energy, like 8B neutrinos, interacting with 40Ar may produce an excited state of 40K that will deexcite in a series of gamma rays. We present an overview of the ongoing solar neutrino absorption study in DEAP-3600 with a discussion of the analysis strategy.

## Keyword-1

DEAP-3600

## Keyword-2

neutrino

## Keyword-3

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