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The PICO Dark Matter Search Programme

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Superheated liquids, such as CF_3I have been shown to have excellent properties when operated in large scale bubble chambers for the detection of dark matter. The PICO collaboration is currently operating a new detector at SNOLAB to demonstrate that a large scale chamber with superheated C_3F_8 can be operated stably. The this paper will present the latest status and results from the PICO 2L chamber using C_3F_8 and will report on the operation of the COUPP 60 detector using CF_3I .

The PICO collaboration is also planning to construct a 250l volume chamber to extend the sensitivity towards lower limits in the spin dependent direct dark matter search. The status of the design work for this upcoming experiment will be discussed.

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