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Type: **Talk**

## **DAMIC results on WIMP search with 11kg.day**

*Wednesday 9 September 2020 11:25 (25 minutes)*

DAMIC (for Dark Matter In CCD) seeks for DM interaction in thick fully depleted CCDs. Thanks to the precise energy estimation, the granularity and the very low noise of these detectors, which provides an energy threshold of 50 eV electron-equivalent, DAMIC is sensitive to low mass WIMP (below  $10\text{GeV}/c^2$ ) through nuclear recoil. The data of the DAMIC at Snolab experiment with 42 grams of active detector installed in the underground laboratory of Snolab were analysed. It represents 11kg.day i.e. around 20 times more than the previous publication. We detail in this presentation the analysis steps and the results of this search directly probing the excess found by CDMS II silicon experiment with the same target nucleus.

### **Internet talk**

#### **Is this abstract from experiment?**

Yes

#### **Name of experiment and experimental site**

DAMIC

#### **Is the speaker for that presentation defined?**

Yes

### **Details**

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