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Study of electron emission in a two-phase xenon detector

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We describe basic principles of electron emission in two-phase xenon and discuss possible ways of spontaneous electron emission. We present a brief summary of experimental results connected to single electron emission including the recent one obtained by the authors. The results of study seem to confirm the hypothesis, that single electron signals originate from the cloud of ionization electrons localised under the liquid-gas interface.

Presentation type

Section talk (10+5 min)

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