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physiciens et physiciennes

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Sensor optimisation and gas quality analysis for spherical gas detector operation.

Monday 29 May 2017 16:15 (15 minutes)

The NEWS-G collaboration is developing new detectors sensitive to low mass WIMPs. The detector is made of a spherical copper vessel filled with gas and radial electric field. The electric field is induced by a sensor bring to the middle of the sphere. Detector behaviour like stability on time or homogeneity are strongly correlated to sensor characteristics and gas quality. This talk will focus on both aspects.

Author: Mr BROSSARD, Alexis **Presenter:** Mr BROSSARD, Alexis

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Track Classification: Particle Physics / Physique des particules (PPD)