

DRD1 Collaboration meeting in Warsaw



Contribution ID: 14

Type: **not specified**

A modelisation of the response of a gaseous TPC optically readout

Wednesday 8 October 2025 11:50 (20 minutes)

The CYGNO collaboration is developing a gaseous time projection chamber with optical readout of a triple-GEM stack for directional dark matter searches. While this technique provides detailed reconstruction of event topology, it requires operation at high gain of the amplification stage, where nonlinearities in the GEM response become significant. We present a model developed to describe these nonlinear effects and compare the simulated results with experimental data

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Session Classification: Working Group 4: Detector physics, simulations, and software tools