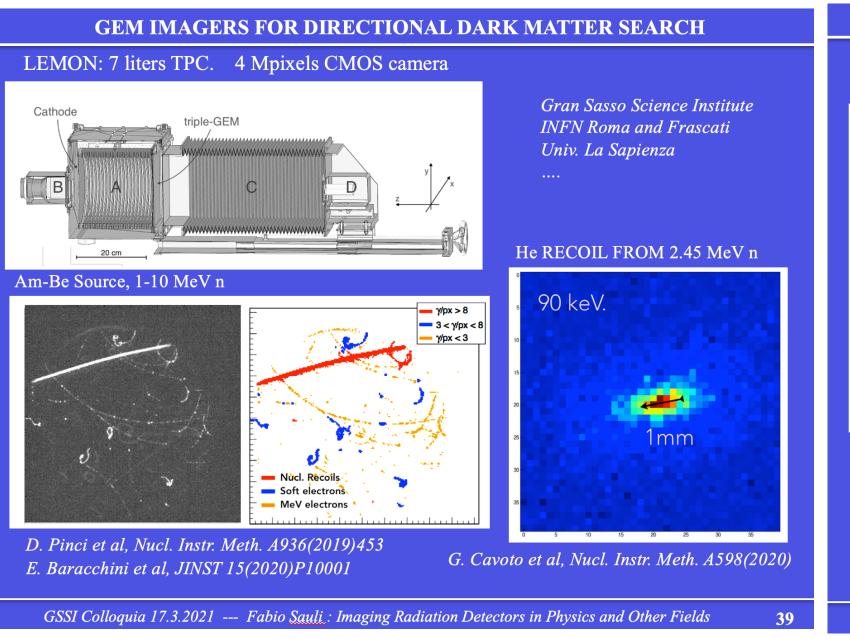
News CYGNO Meeting

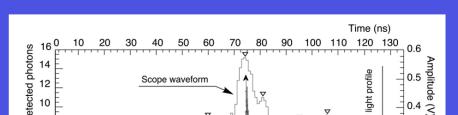
Main results of 2020 to CSN2:

- -LIME operation and performance (largest Optical Readout TPC);
- -First evidence of electro-luminescence;
- -Measurement of electron rejection below 10 keV;
- -Evidence of good light yield with Isobutane



CYGNO: DIRECTIONAL DARK MATTER SEARCH ONE m³ DEMONSTRATOR: TRIPLE GEM TPC WITH OPTICAL READOUT He-CF₄ AT ONE BAR OPTICAL GEM SCINTILLATION AND PM SIGNAL INFN e Università ROMA Gran Sasso Science Institute **INFN Frascati FURTHER DEVELOPMENTS NEEDED** LONG-TERM STABILITY NON-LINEARITY OF RESPONSE FASTER OPTICAL RECORDING 50 Hz. → 1 kHz E. Baracchini et al. J. Phys. Conf. Series 1498(2020)12016 I. Abritta Costa, E. Baracchini et al, J. Phys. Conf. Ser. 1498 (2020) 012016 Sauli talk at GSSI

FROM 2-D TO 3-D FROM CLUSTERS CORRELATION



3-D TRACK RECONSTRUCTION FROM CORRELATED CLUSTERS Z RESIDUALS: 100 μm rms

