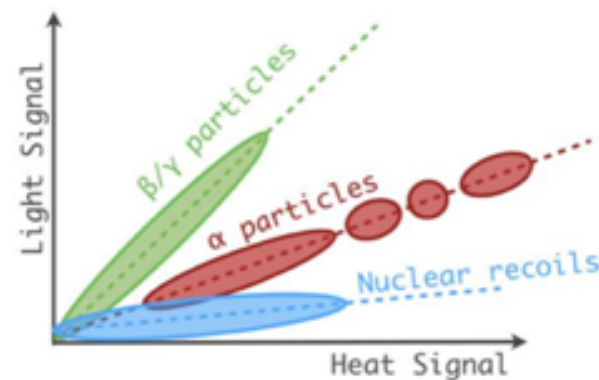
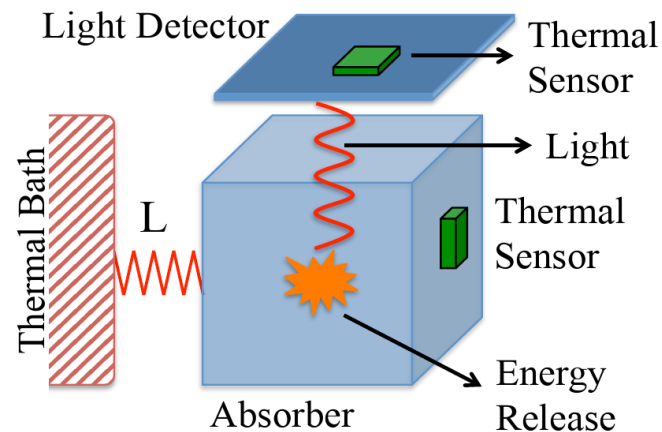


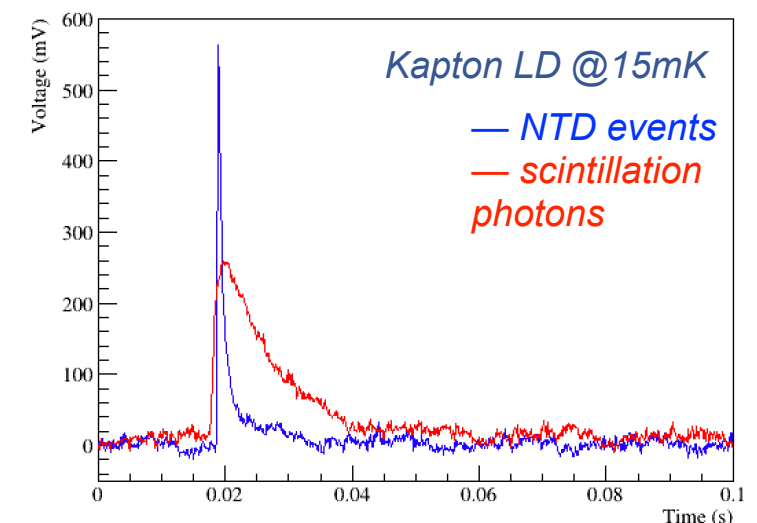
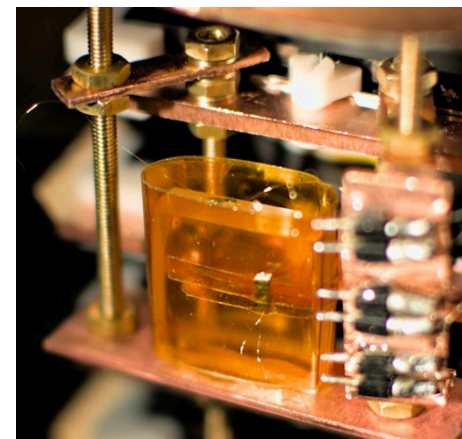
Novel techniques for thermal detectors and applications for rare events physics

Irene Nutini (on behalf of the CUORE collaboration)
Università degli Studi Milano Bicocca - INFN Milano Bicocca



Cryogenic scintillating calorimeters read with NTD sensors.
Heat & light detection: particle discrimination

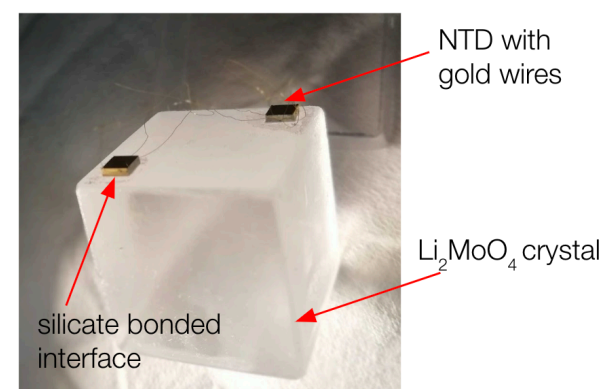
Improvement of the light collection
Development of novel cryogenic Light Detectors with plastics: Polyimide (Kapton) LD



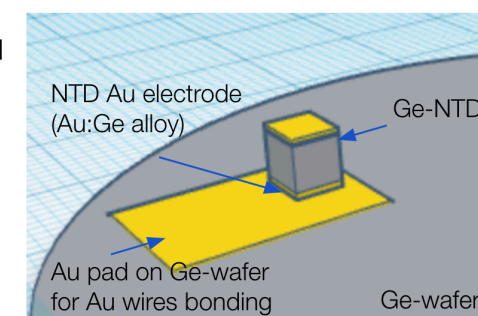
Improvement of the thermal detector sensitivity

New techniques for the coupling between the absorber and the NTD

- Silicate bonding
- Eutectic bonding



*First test of silicate bonding
Ge-NTD / Li_2MoO_4 @UniMiB
(in collab. with INFN Ferrara)*



*Design for the realisation of an eutectic bonding
Ge-NTD / Ge-wafer*