



AKADEMIA GÓRNICZO-HUTNICZA
IM. STANISŁAWA STASZICA W KRAKOWIE
AGH UNIVERSITY OF KRAKOW



AGH scintillator lab and Dose3D-Future detection system

Bartosz Mindur

on behalf of Dose3D-Future Collaboration

AGH University of Krakow

IFJ, 19.10.2026

System overview

DAQ system presentation

Rack 19"



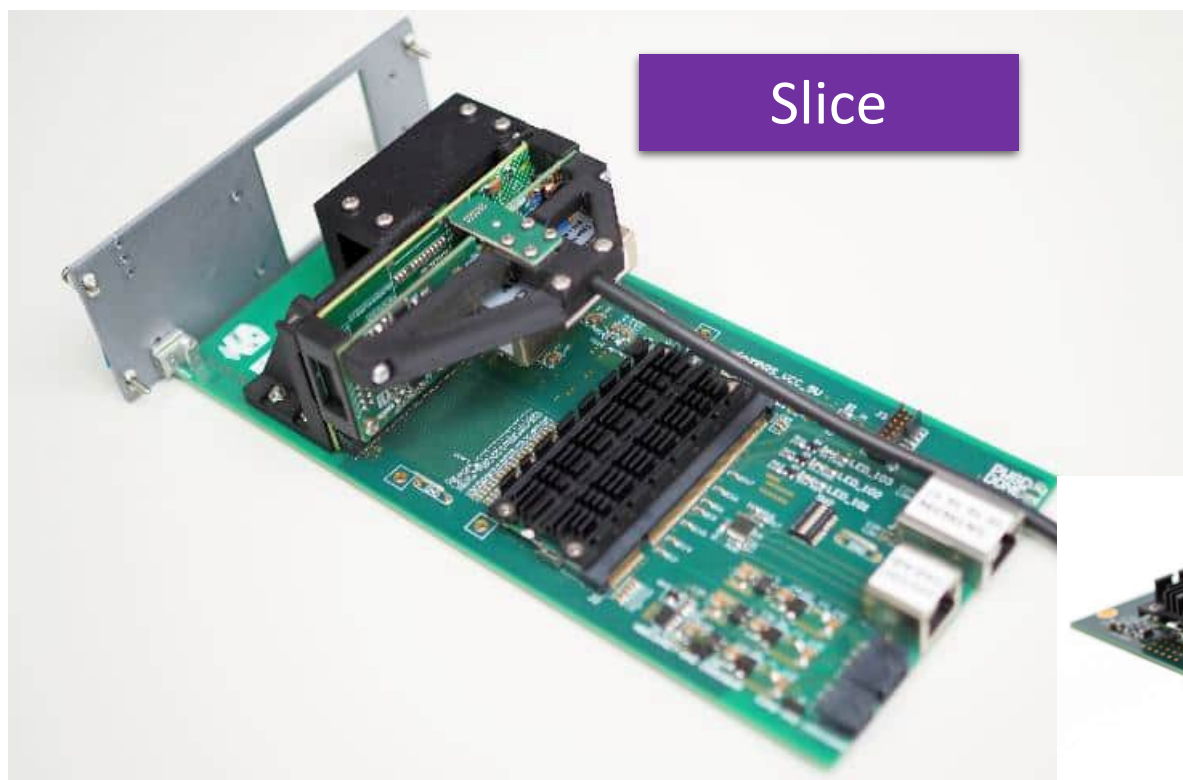
Slices crate



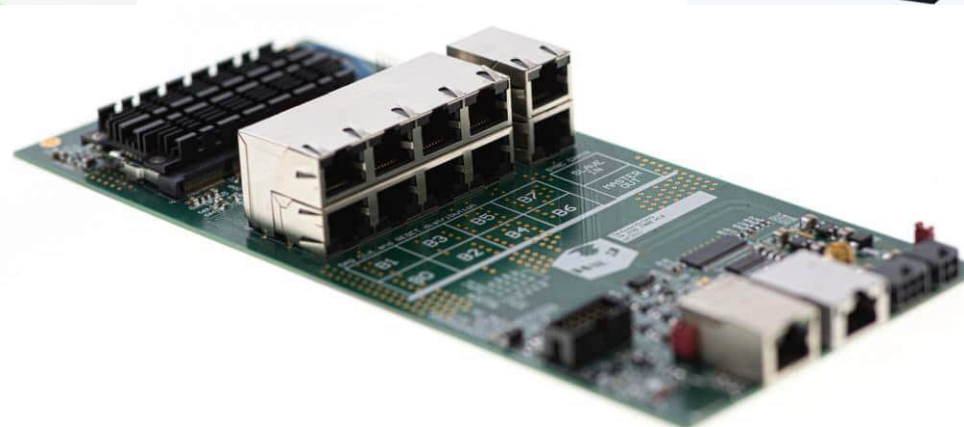
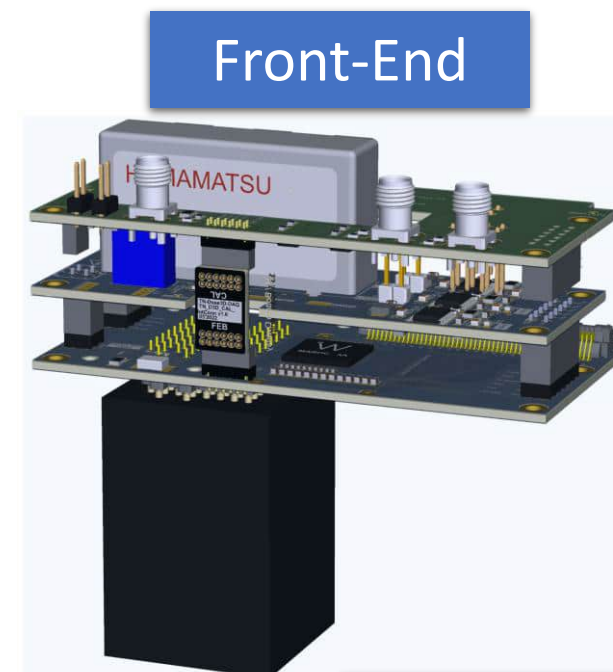
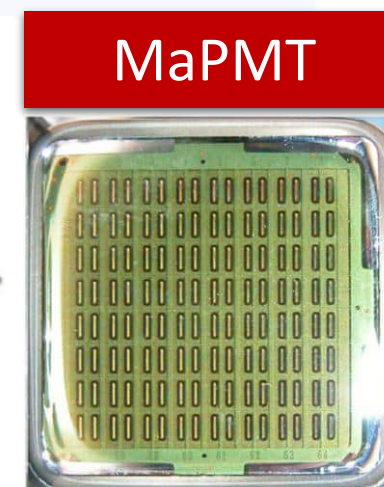
PSU crate



DAQ modules

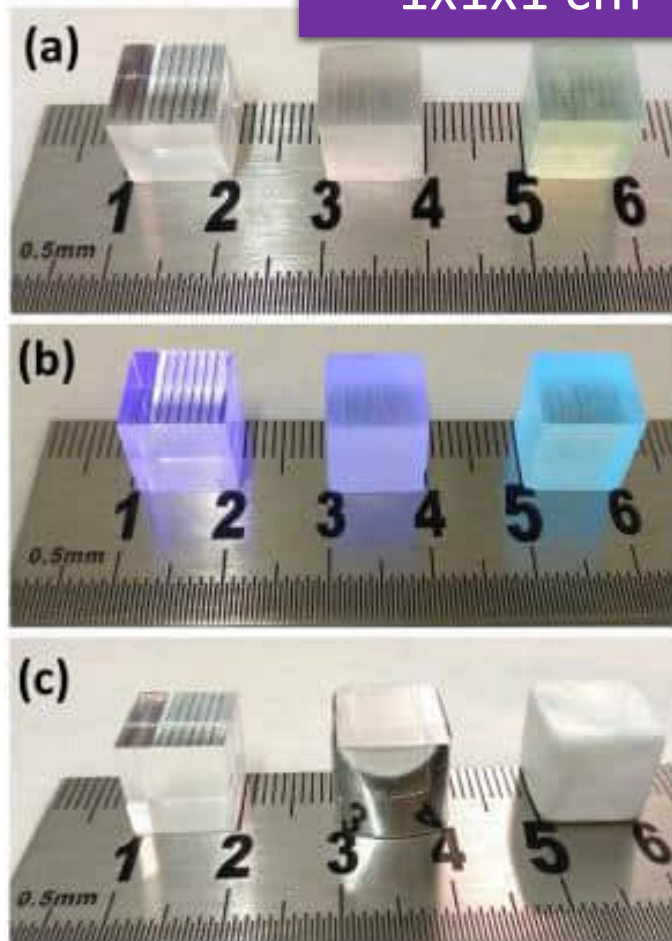
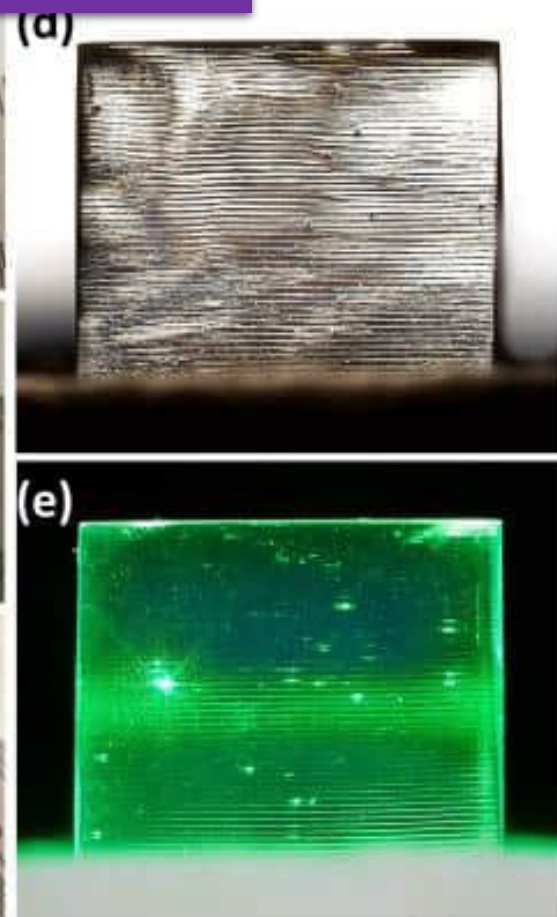


Time Board

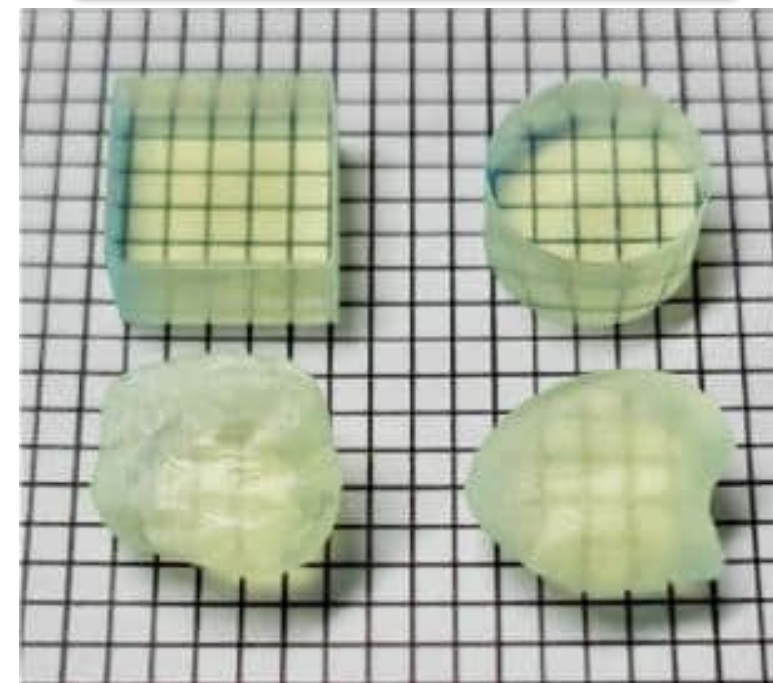


3D-printed scintillators

1x1x1 cm³ cubes



Adjustable size & shape



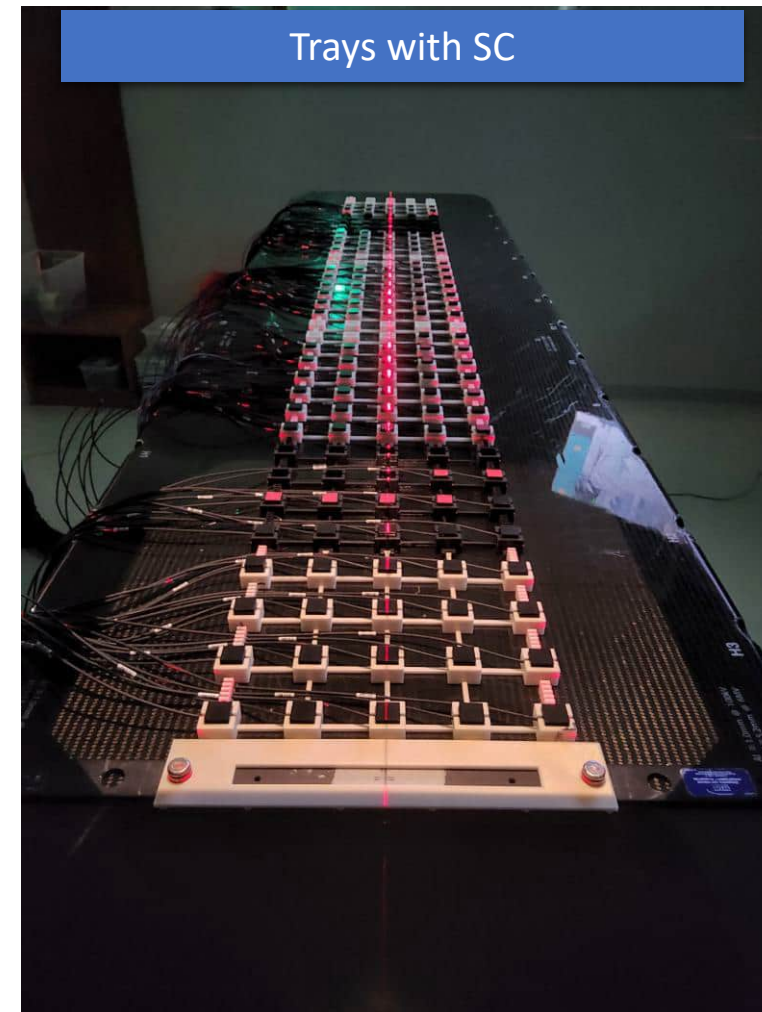
<https://raymetrics.co.kr/customPrinted>

<https://doi.org/10.1016/j.radmeas.2022.106864>



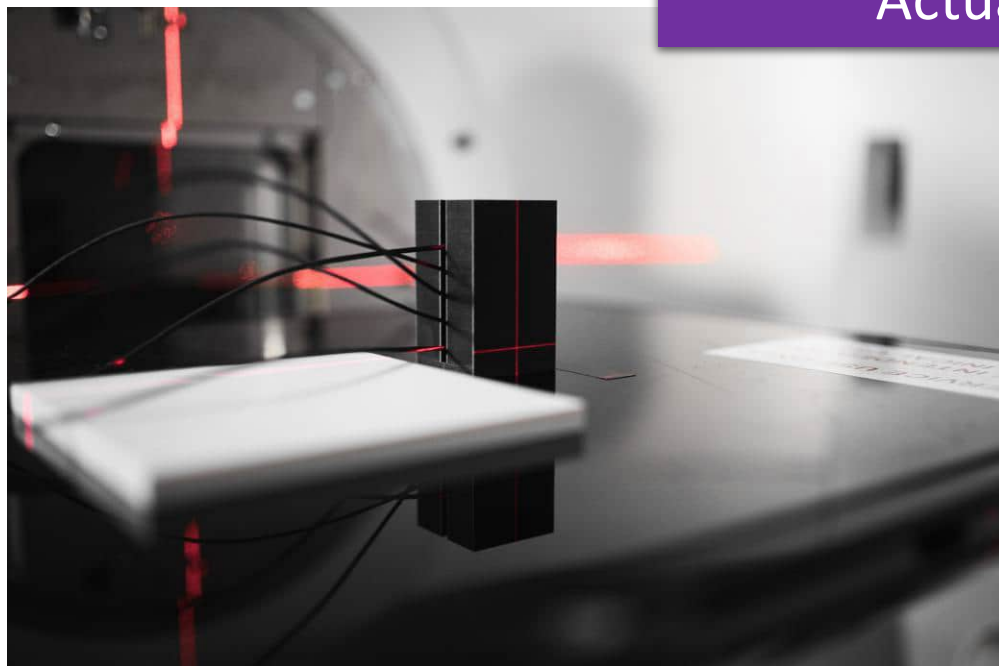
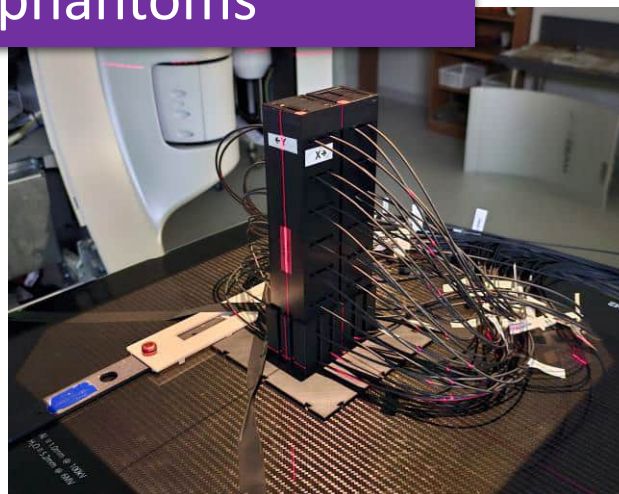
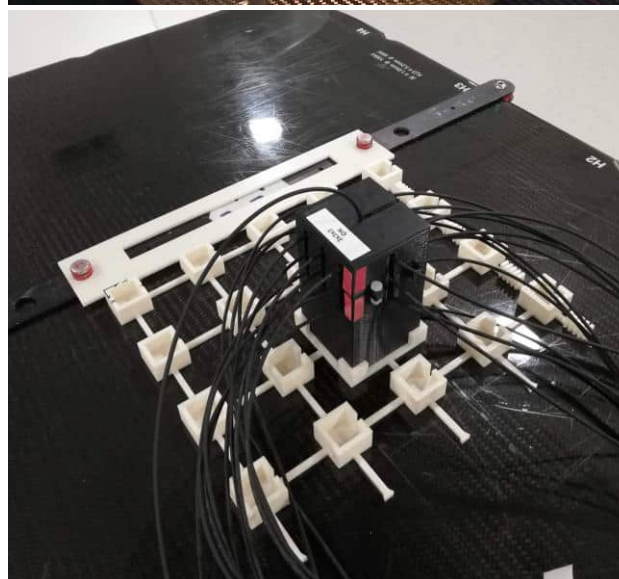
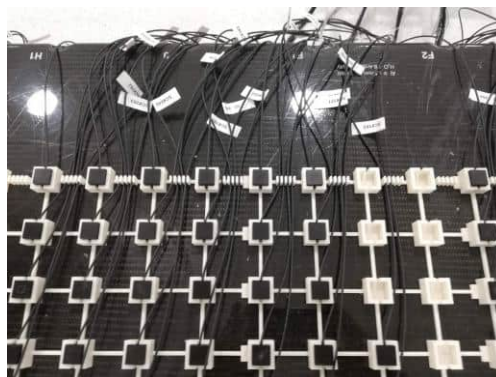
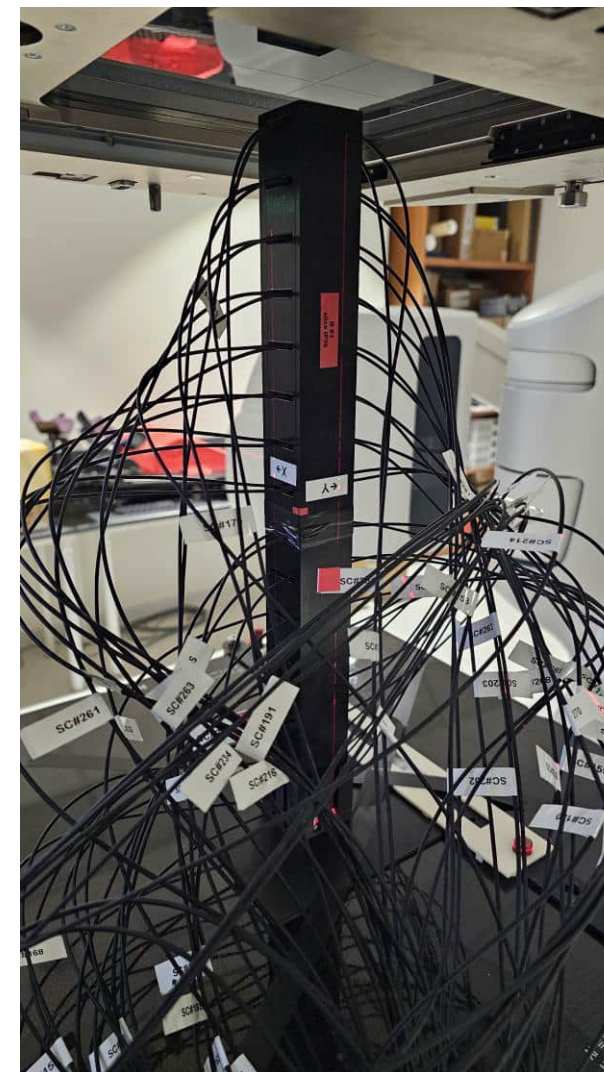
Tests

National Research Institute of Oncology

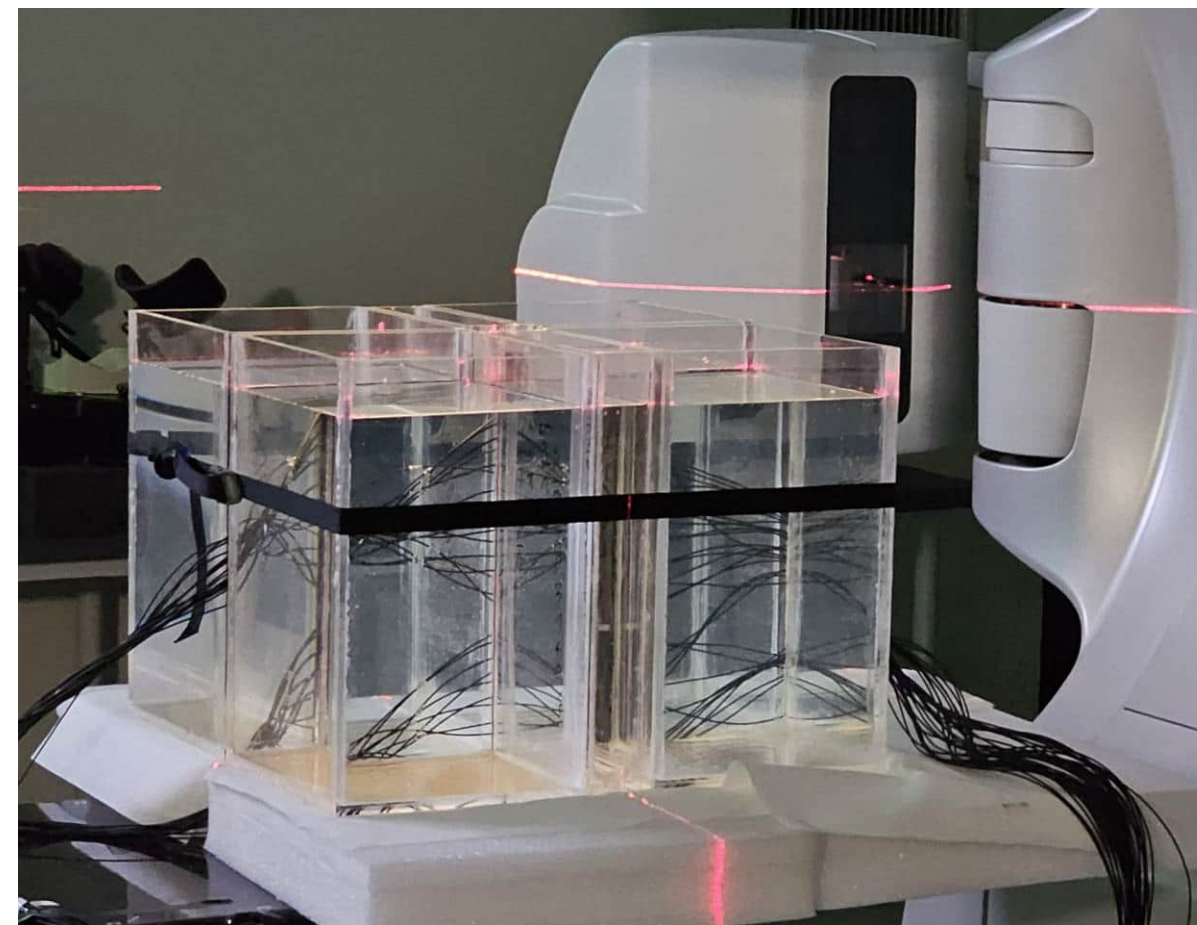


Reconfigurable phantoms

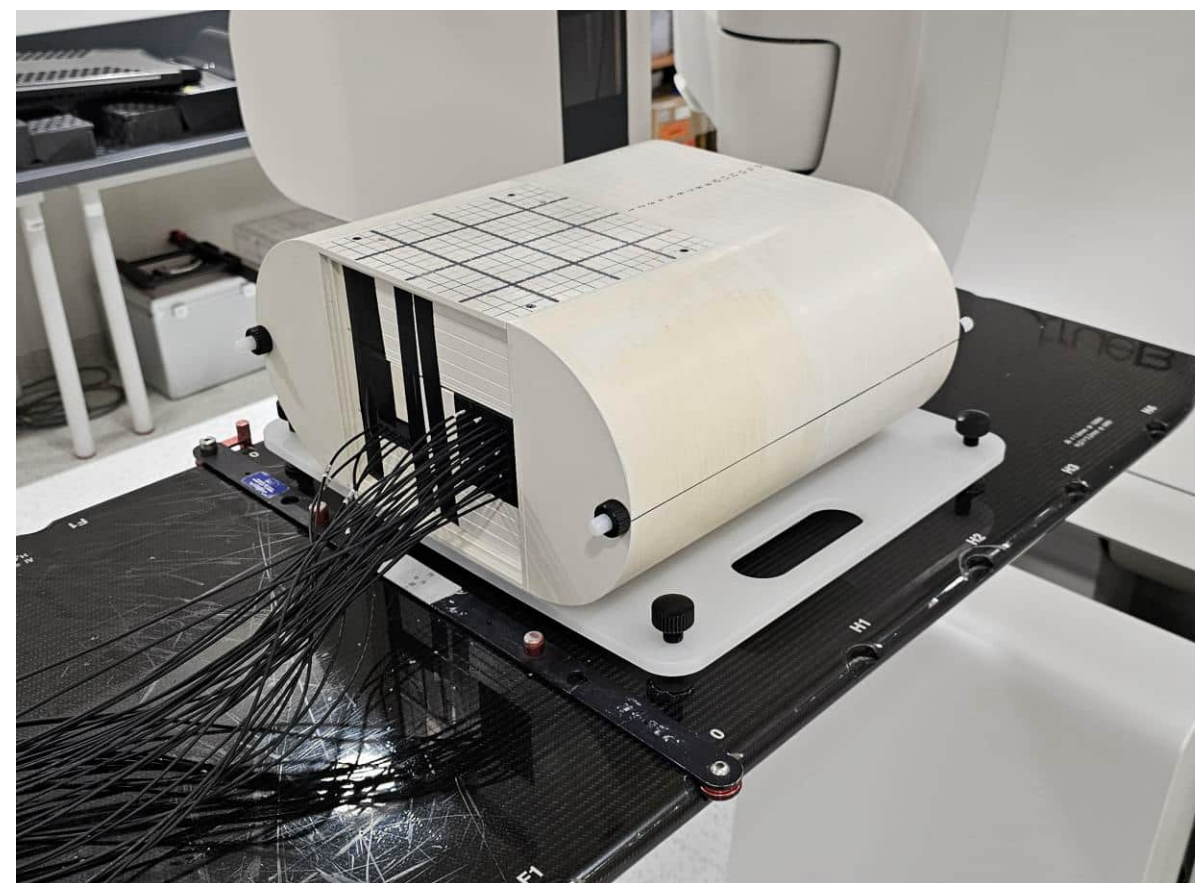
Actual phantoms



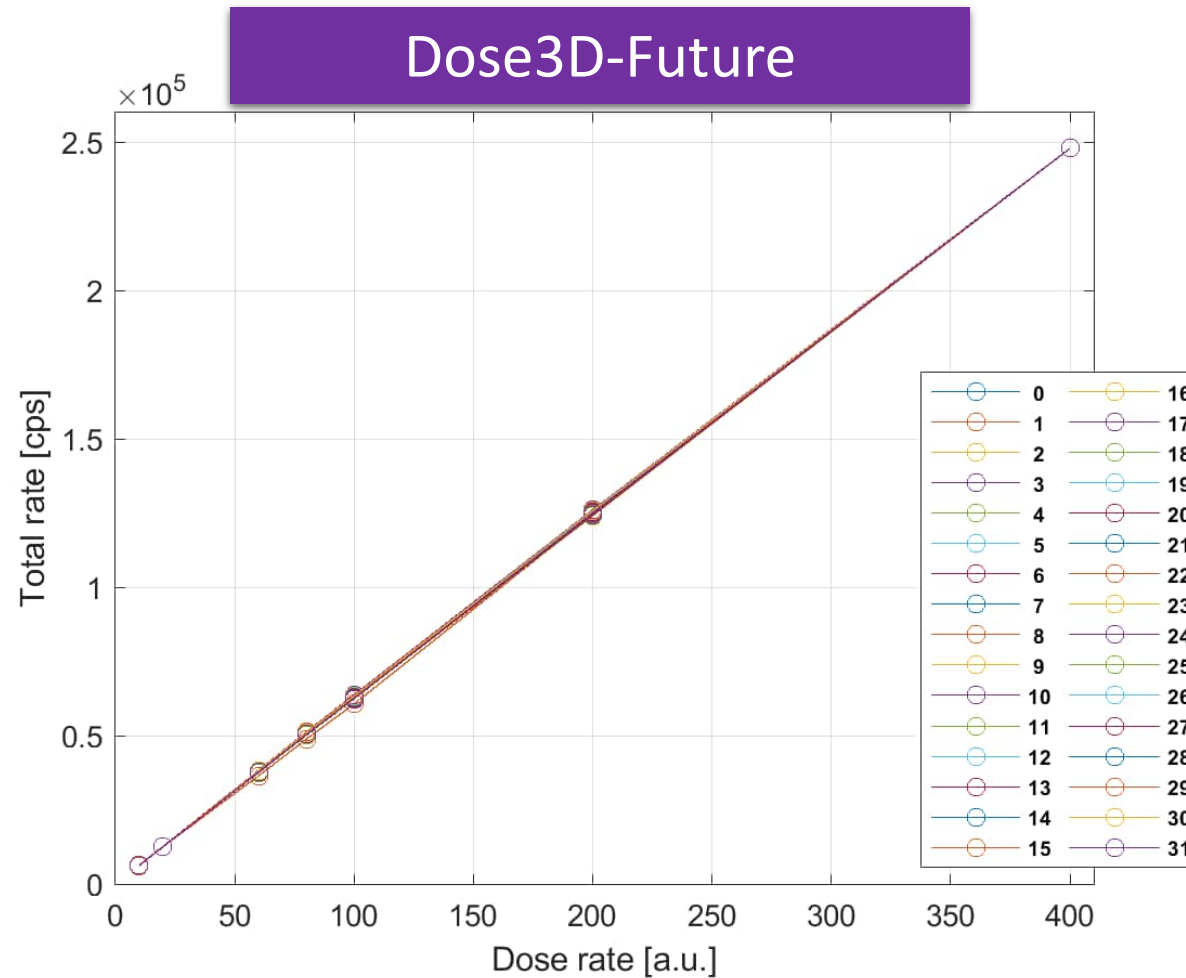
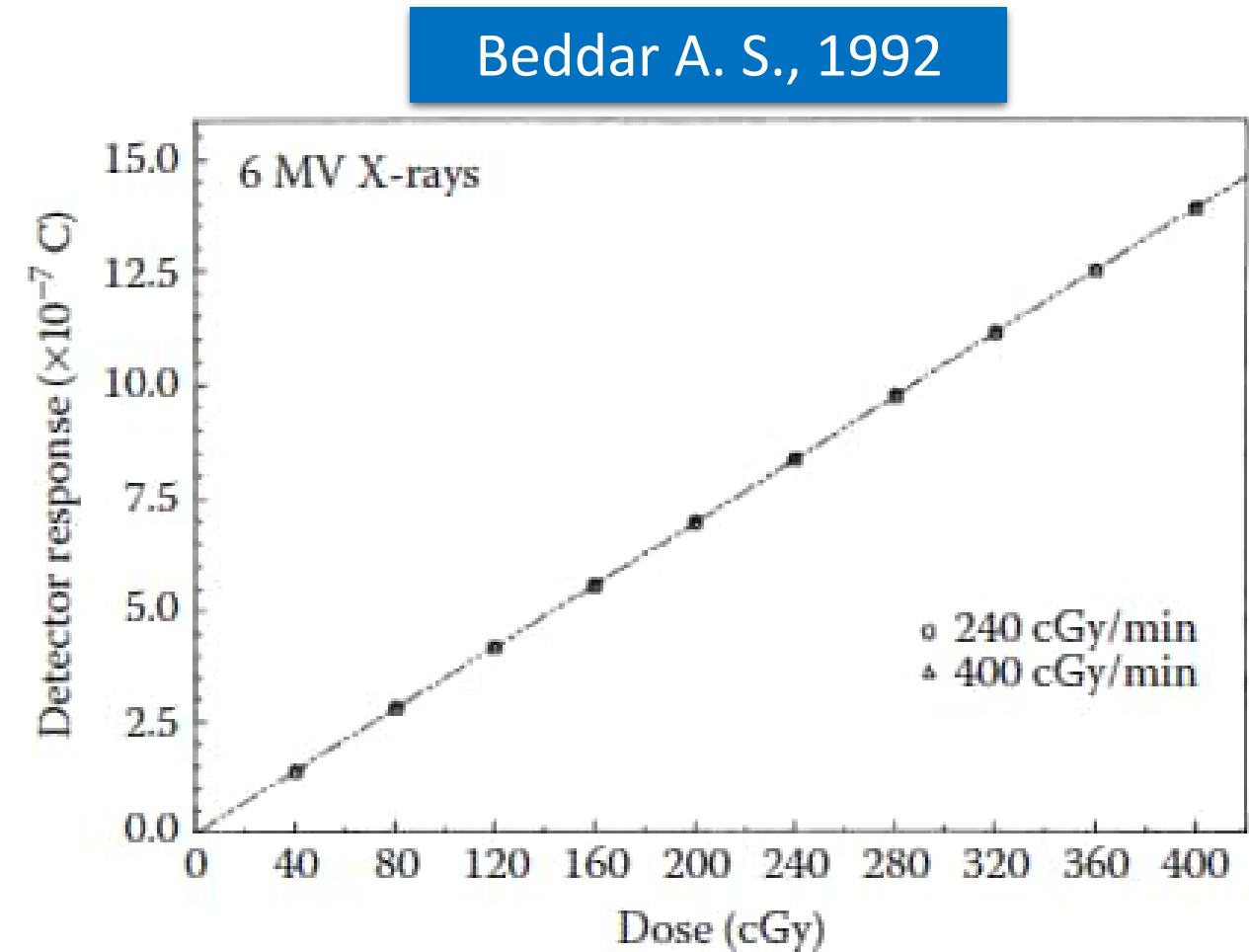
Water phantom



I'mRT phantom



Overall system linearity



Q&A

