

$u^b$

<sup>b</sup>  
UNIVERSITÄT  
BERN

AEC  
ALBERT EINSTEIN CENTER  
FOR FUNDAMENTAL PHYSICS

LABORATORIUM FÜR HOCHENERGIEPHYSIK  
**LHEP**  
UNIVERSITÄT BERN



# ArgonCube 2x2 Geometry (GDML)/ Integrating Paraview with ArgonBox

LANDWAG Meeting  
July 3rd, 2019

Patrick Koller ([patrick.koller@lhep.unibe.ch](mailto:patrick.koller@lhep.unibe.ch))

# ArgonCube 2x2 Geometry (GDML)

Implemented with **NDGGD**: <https://github.com/gyang9/dunendggd>

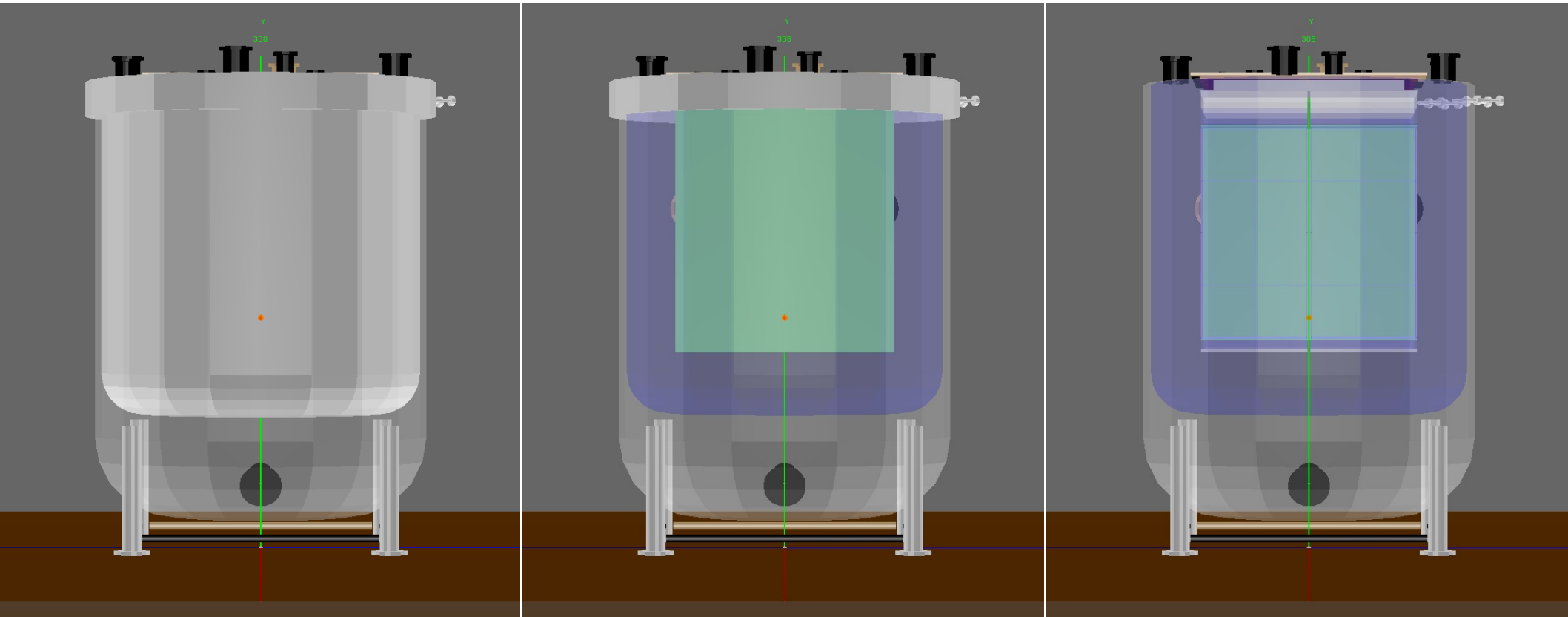
‘A tool for complicated detector geometry generation’

A simple geometry for **2x2 + cryostat** already exists:

<https://github.com/hcsullivan12/arc2x2ggd>

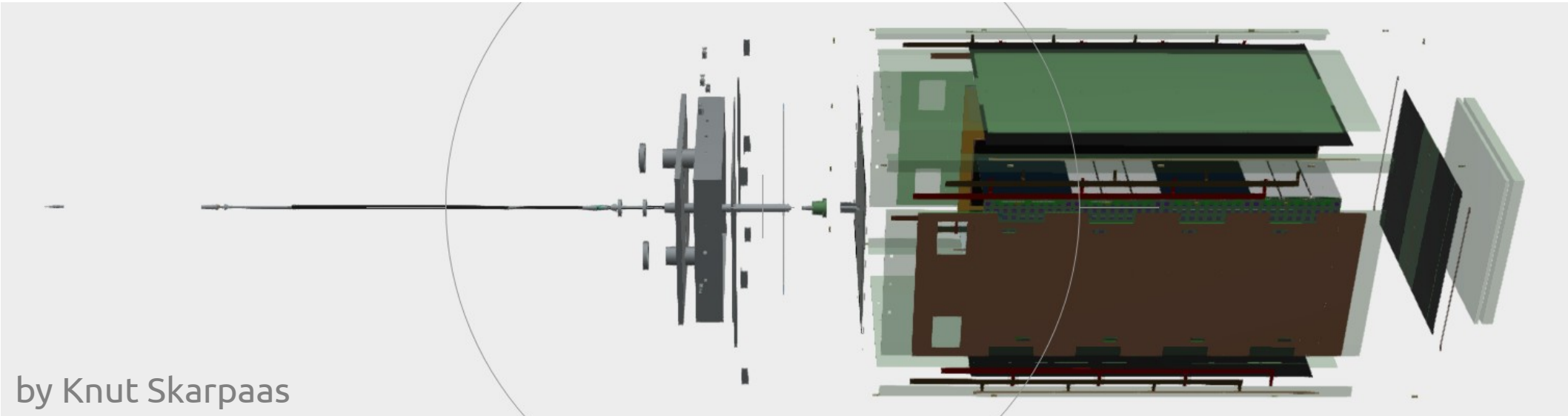
(with help of Hunter Sullivan)

# ArgonCube 2x2 Geometry (GDML)



# 2x2 Design Updates

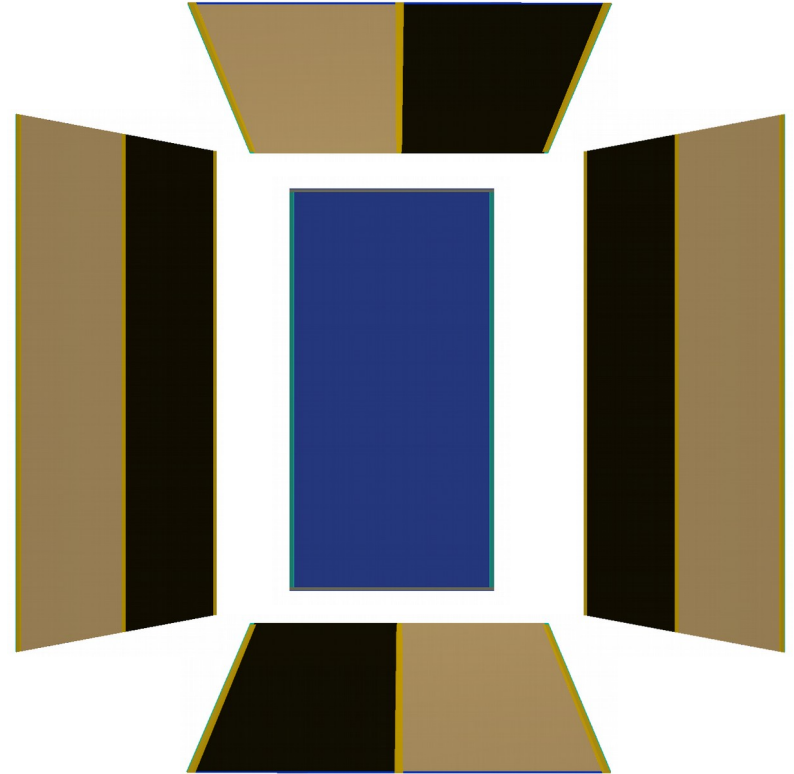
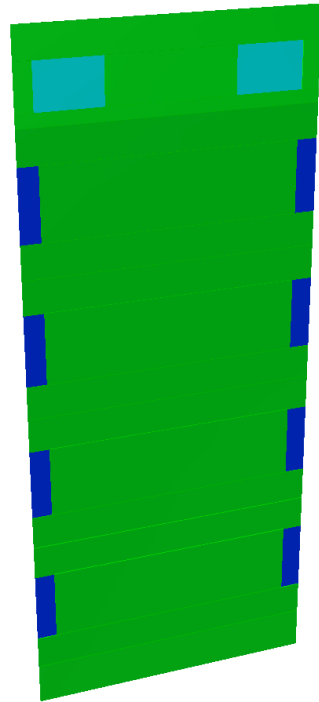
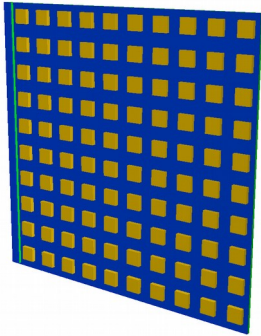
- A lot of additional details were added (Module Design Group):



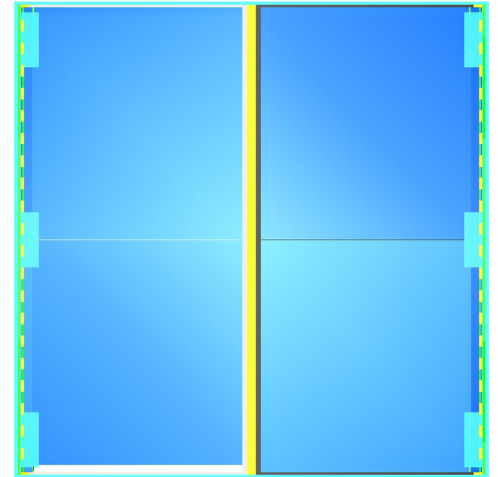
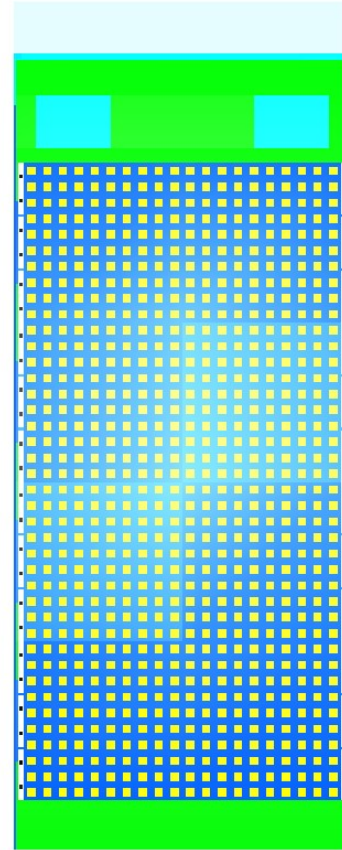
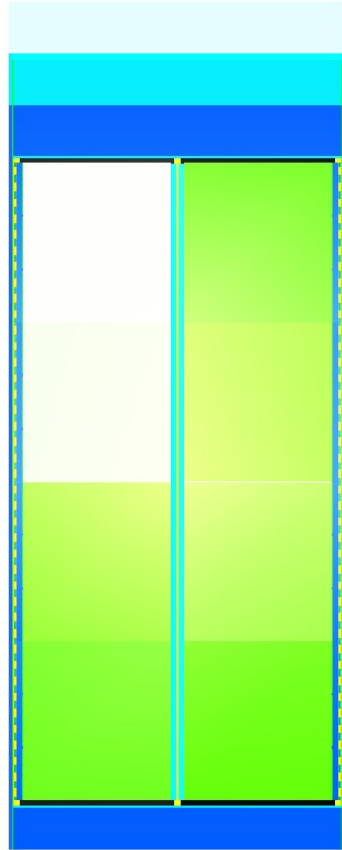
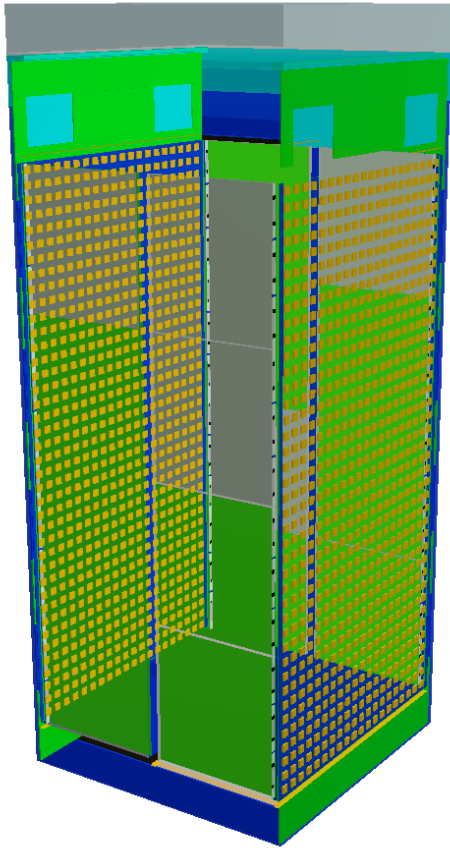
by Knut Skarpaas

- 2x2 Module GDML needs to be updated
- Work towards a photon propagation library

# GDML Geometries for Sub-Systems



# Putting Everything Together



# Integrating Paraview with ArgonBox

For Linux: [https://github.com/PPKoller/EventDisplay\\_2x2](https://github.com/PPKoller/EventDisplay_2x2)

