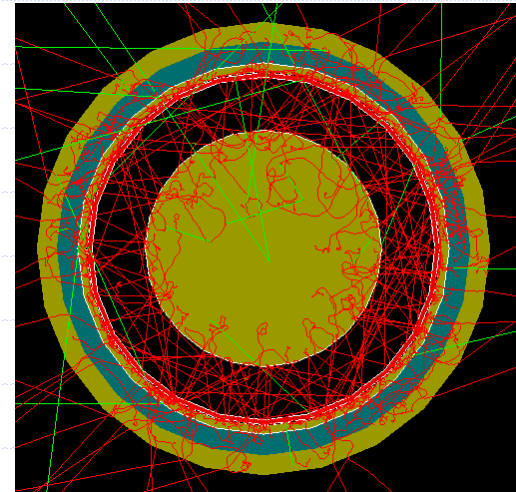


Local FCalPulse Mtg

J.Rutherford
4 March 2021



Outline

- ◆ PowerPoints from past Local Group Meetings
- ◆ Status of preamps
- ◆ Latest on the Sr-90 beta source
- ◆ Fast trigger
- ◆ Status of shower calorimeters
- ◆ Analysis of simulated 350 GeV electrons impinging on our test beam setup

FCalPulse Local Group Meetings

- ◆ Powerpoints of the talks of past meetings can be found at http://atlas.physics.arizona.edu/Arizona_Atlas_Downloads/FCalPulse/LocalTalks

FCalPulse Preamps

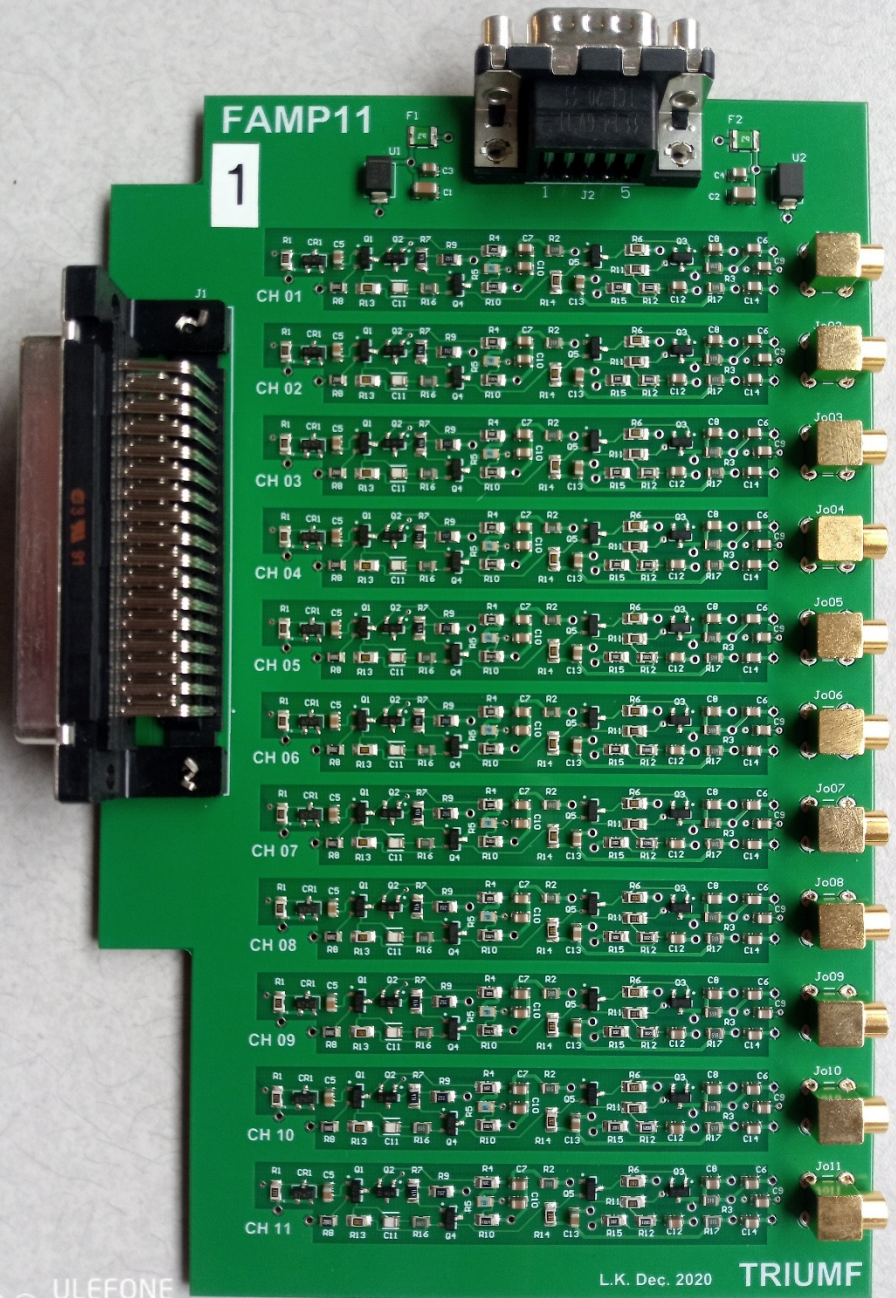
- ◆ Amplifies the calorimeter signals
- ◆ 11 + 11 channels
- ◆ Designed and built at TRIUMF (Leonid)
- ◆ New, more robust design
- ◆ Printed-circuit boards completed
- ◆ Boards and components at assembly house
- ◆ Expected to be returned in a week
- ◆ Another week to test and certify

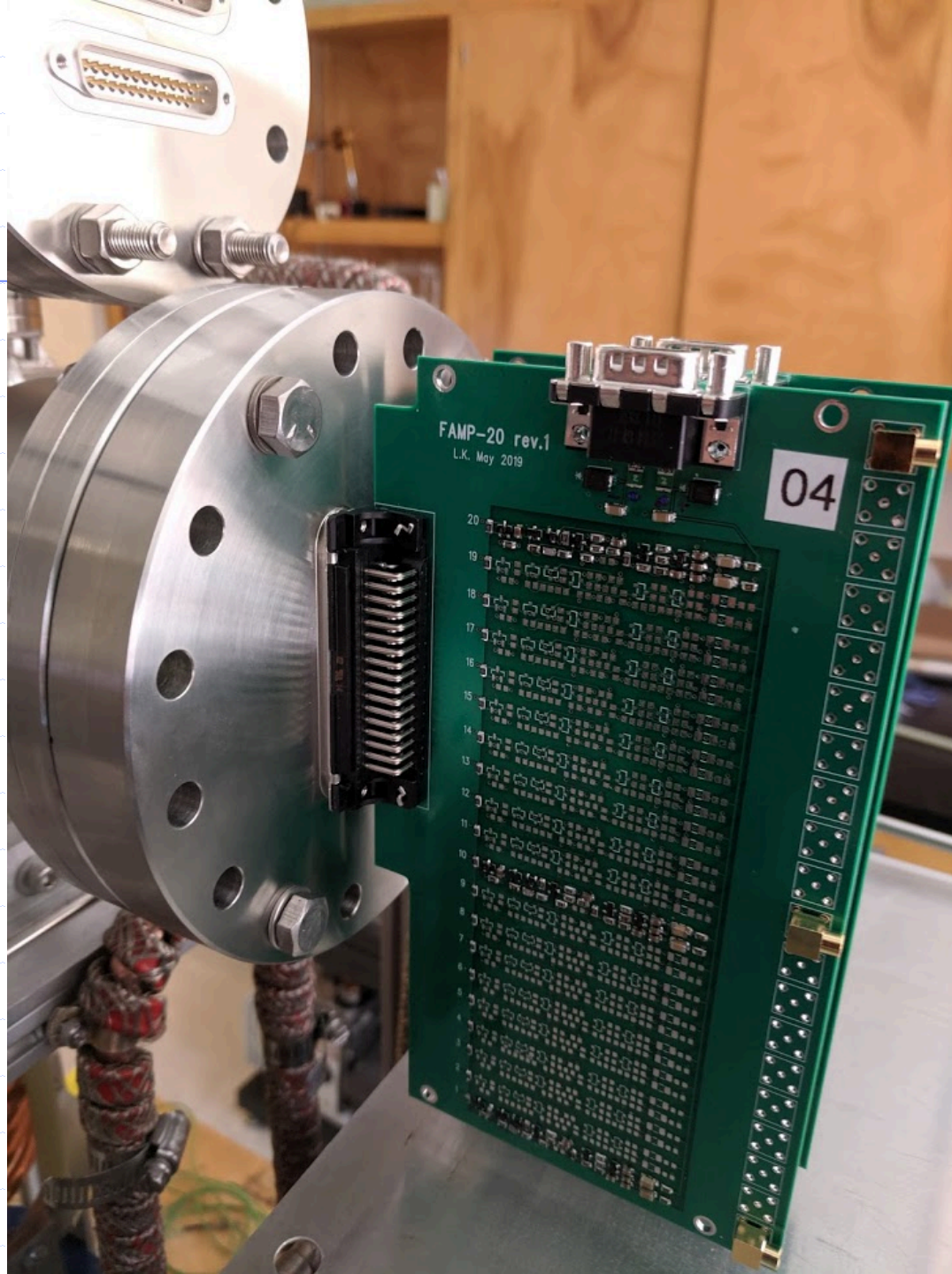
New PreAmps

Leonid Kurchaninov

- Delivered to TRIUMF
- Testing started – will extend into next week
- We might receive them late next week or the following week.
- Now 11 channels/board
 - ◆ Need 22 channels in all
- More space between channels for better isolation
- Improved filtering on low voltage power

4 March 2021



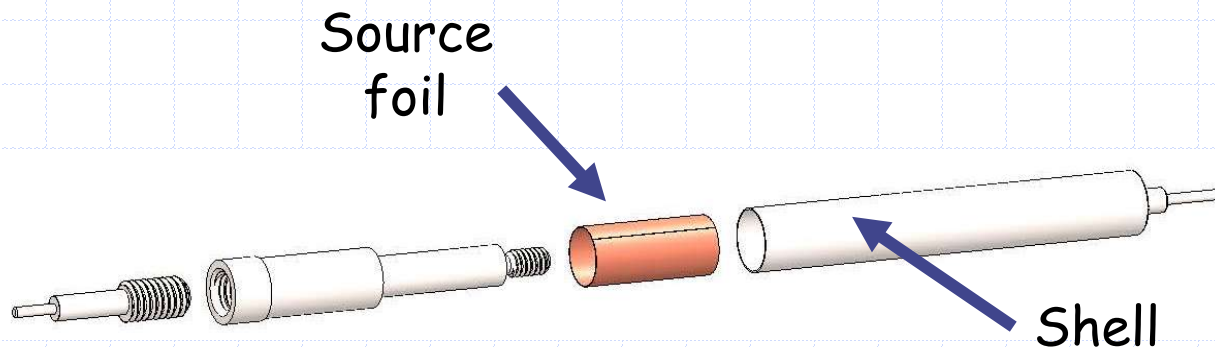


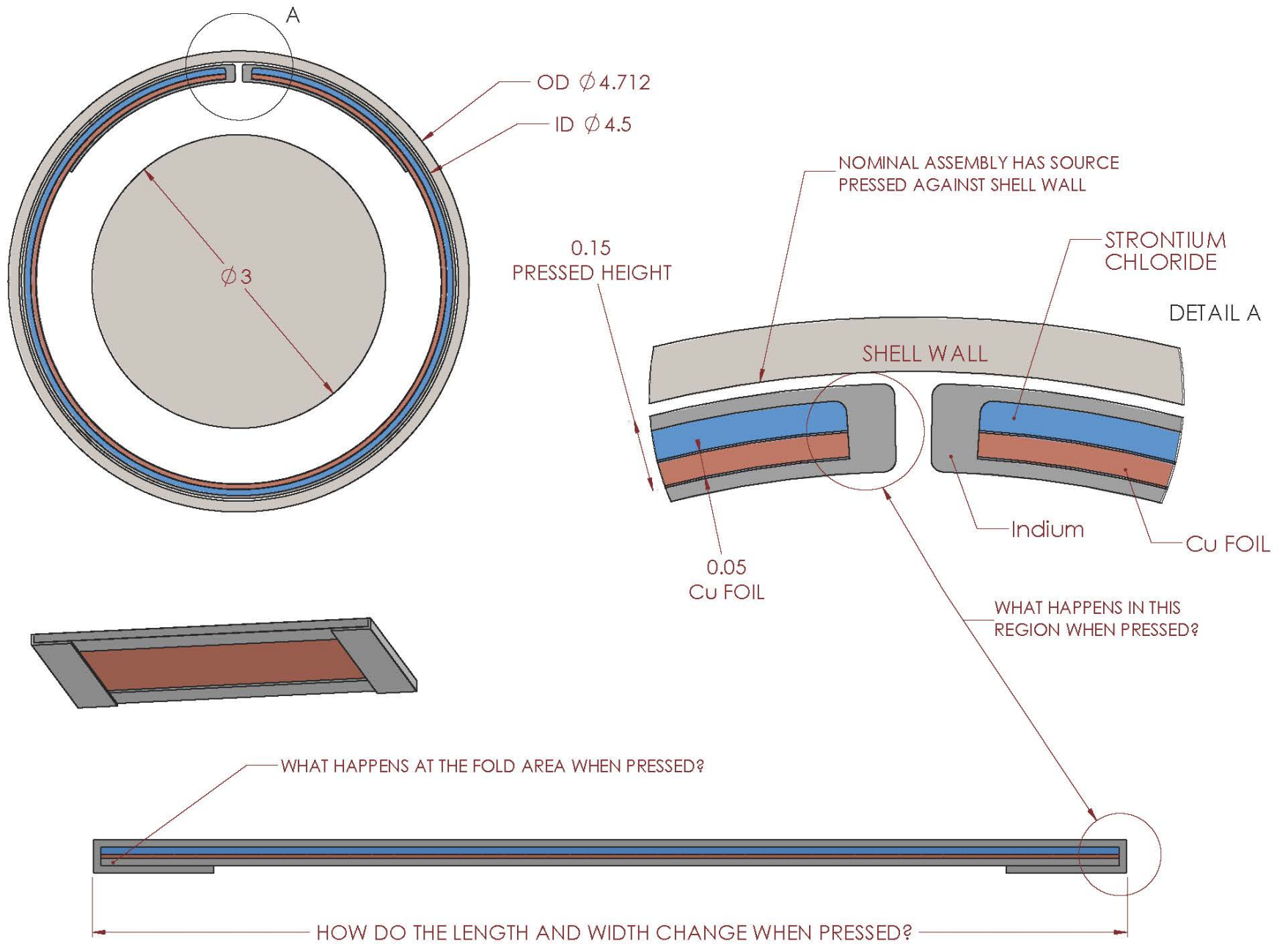
4 March 2021

Hot beta source - Status

◆ Manufacturer: IPPE Obninsk

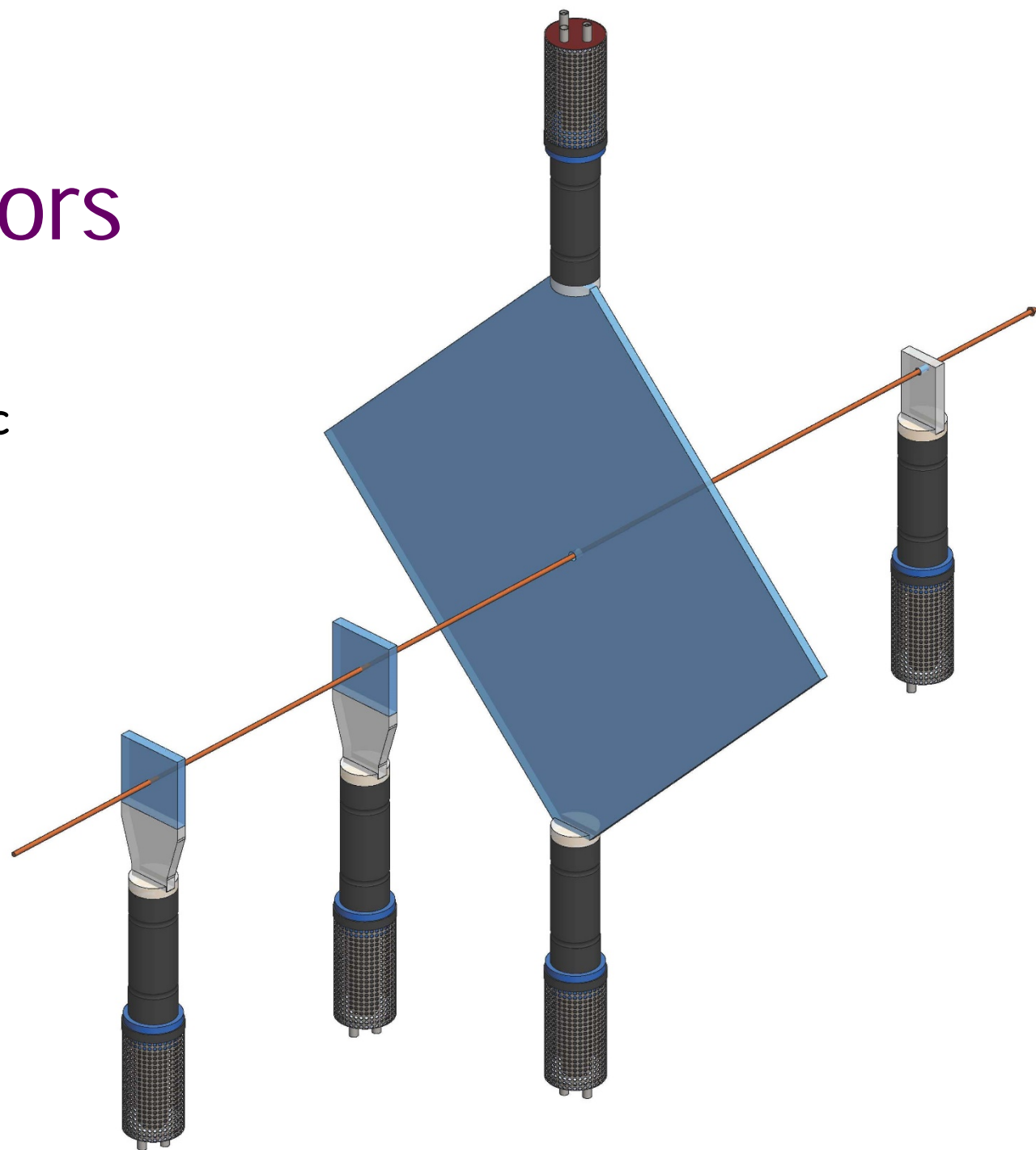
- We asked them to pause production
- Their proposal to enclose the SrCl_2 in $100\ \mu\text{m}$ of Indium is unacceptable.
 - ◆ Indium is too dense and Z is too high
 - ◆ Defeats the point of the thin Titanium shell wall





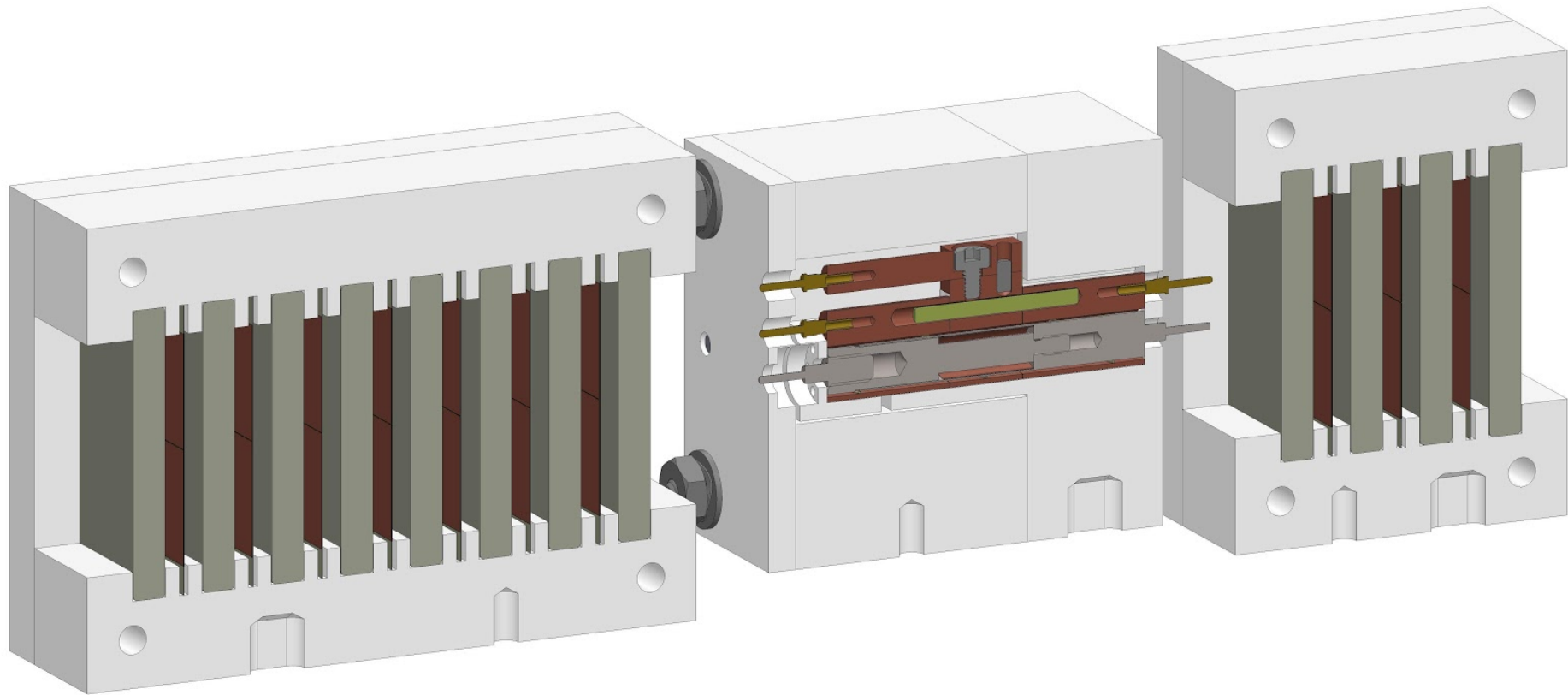
Trigger Scintillators

Ready to order
scintillator plastic



4 March 2021

Shower Calorimeters on L/R



W-plate Shower Calorimeters

◆ Purpose

- Develop EM shower which is max at PEEK block

◆ News from IHEP/Protvino (Sergey Denisov)

- Tungsten plates are completed
- Trouble drilling holes for ground pins