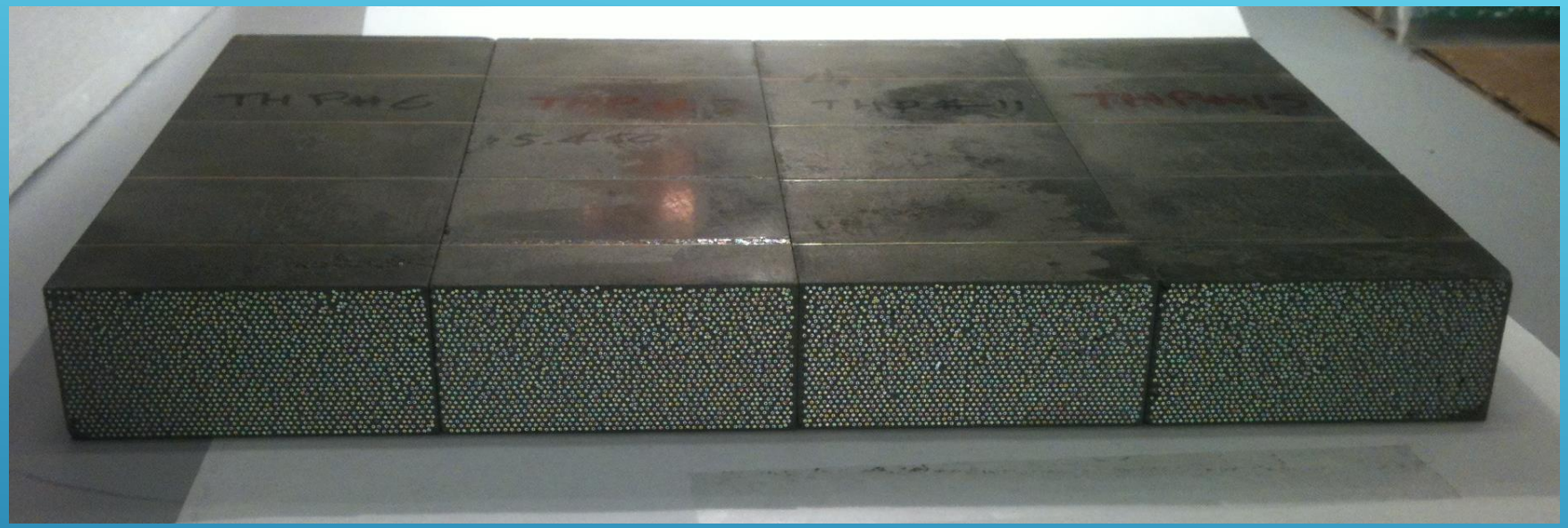
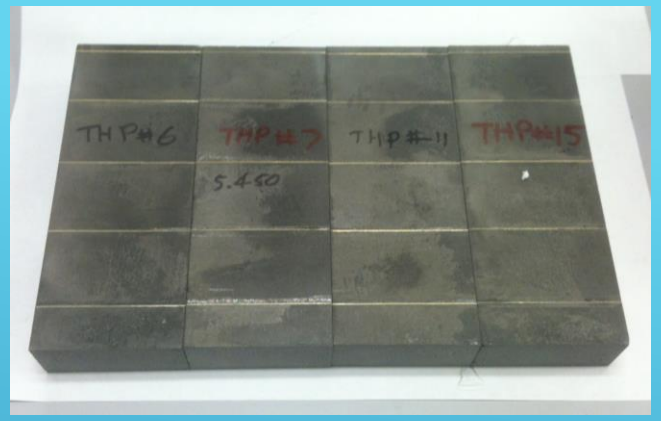
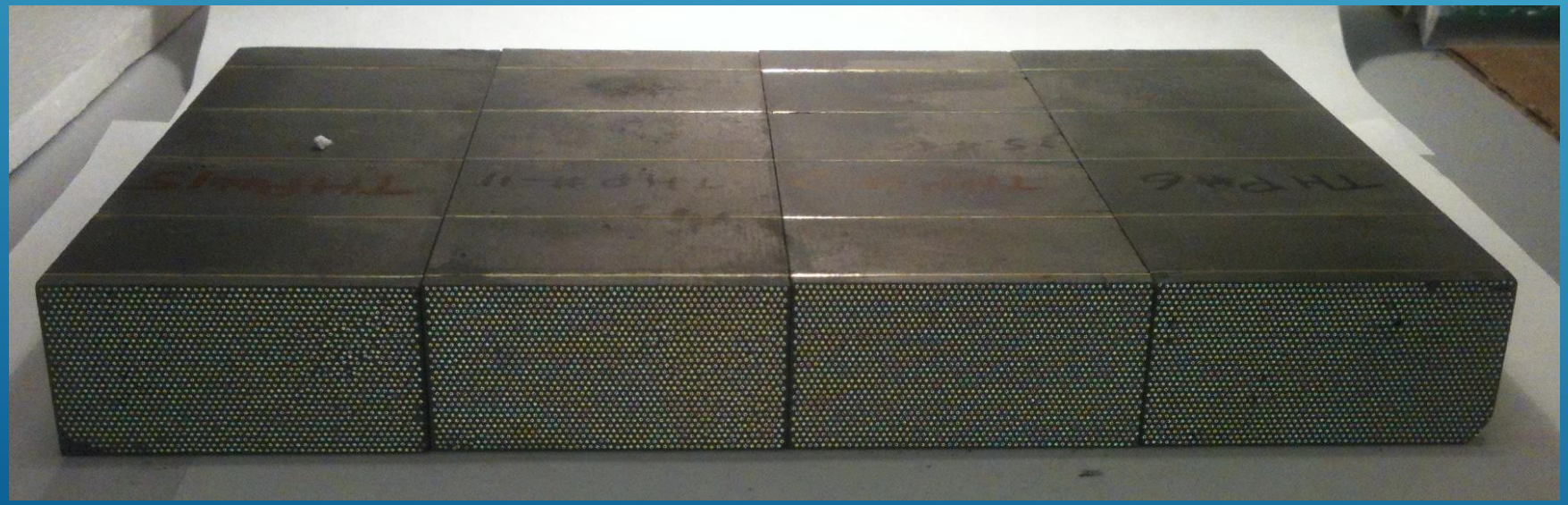
# BNL SPHENIX EMCAL UPDATE 2/16/2016

# 4 machined THP blocks received from UIUC





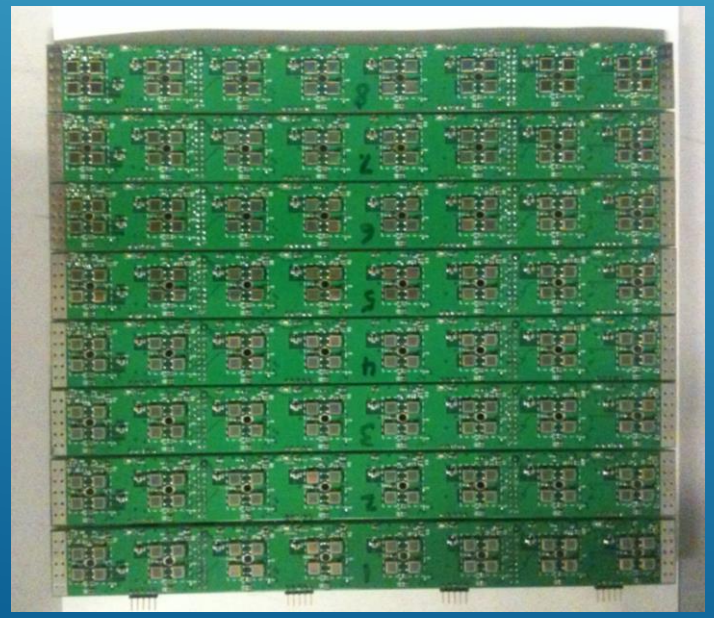
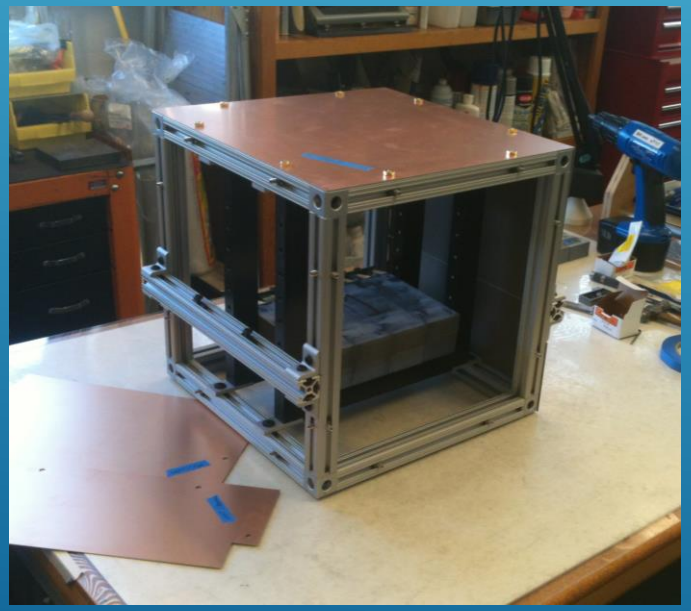

Read-out end



Reflector end

# Module densities

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | THP block # | | | | | | | |
| | spec | | 6 | | 7 | | 11 | | 15 | |
| | | | | | | | | | | |
| Length | 5.47 | | 5.468 | | 5.455 | | 5.443 | | 5.472 | inches |
| | | | | | | | | | | |
| width | 2.097 | | 2.113 | | 2.111 | | 2.111 | | 2.113 | inches |
| | | | | | | | | | | |
| height(thin) | 0.94 | | 0.946 | | 0.942 | | 0.947 | | 0.944 | inches |
| | | | | | | | | | | |
| height (mid) | 1.000 | | 1.002 | | 1 | | 1 | | 1.005 | inches |
| | | | | | | | | | | |
| height (thick) | 1.061 | | 1.061 | | 1.058 | | 1.058 | | 1.06 | inches |
| | | | | | | | | | | |
| | | | | | | | | | | |
| volume | | | 11.58 | in3 | 11.52 | | 11.49 | | 11.62 | in3 |
| | | | 189.7 | cm3 | 188.7 | | 188.3 | | 190.4 | cm3 |
| | | | | | | | | | | |
| weight | | | 1755.5 | g | 1758 | | 1850.5 | | 1922.5 | g |
| | | | | | | | | | | |
| density | | | 9.25 | g/cm3 | 9.32 | g/cm3 | 9.83 | g/cm3 | 10.10 | g/cm3 |

# Prototype progress at BNL

- 3 rows of blocks assembled, epoxied together
- Light guides attached to one row
- 8 rows of electronics assembled – testing (before attaching to row of blocks) is ongoing
- Support frame/housing is progressing