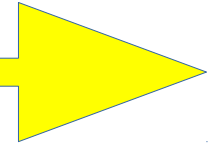
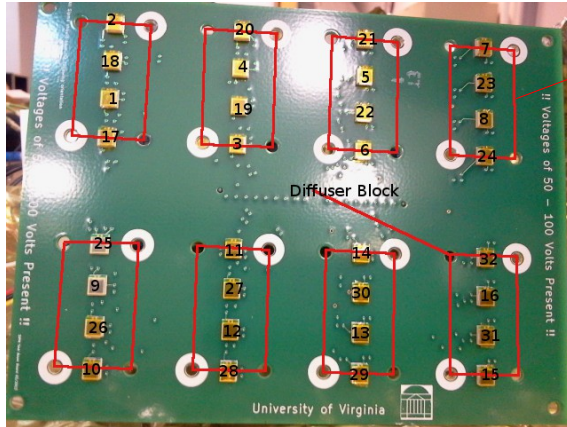


Beam Direction

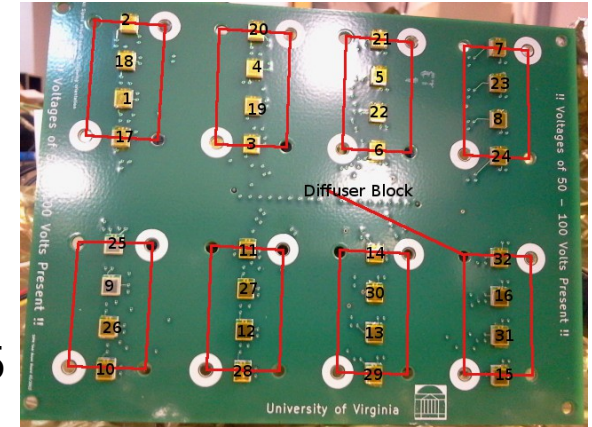


Top of box



Red lines mark diffuser groupings

Board A  
PADE 112\*



Board D  
PADE 115

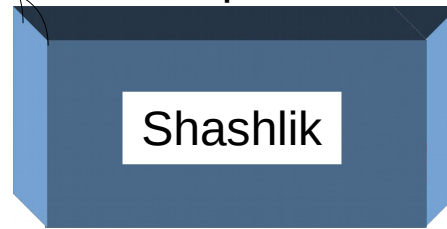
Map  
to top  
board

Fiber numbering,  
clockwise from  
top left  
(front view)

Side facing SIPMs

|   |   |  |  |   |
|---|---|--|--|---|
| 1 | 2 |  |  |   |
| 4 | 3 |  |  |   |
|   |   |  |  |   |
|   |   |  |  |   |
| 1 | 2 |  |  | 1 |
| 4 | 3 |  |  | 4 |

top



bottom

|  |  |  |   |   |
|--|--|--|---|---|
|  |  |  | 2 | 1 |
|  |  |  | 3 | 4 |
|  |  |  |   |   |
|  |  |  |   |   |
|  |  |  |   |   |
|  |  |  |   |   |

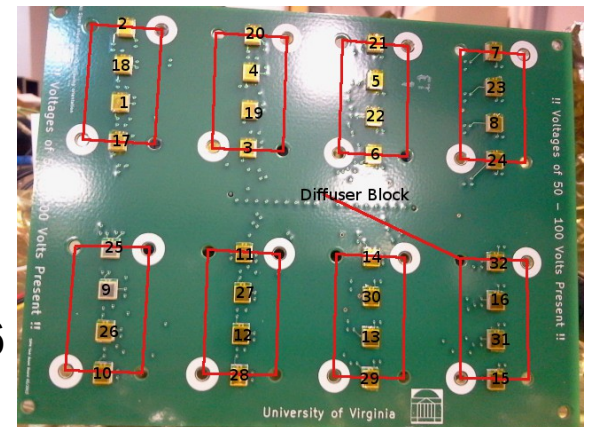
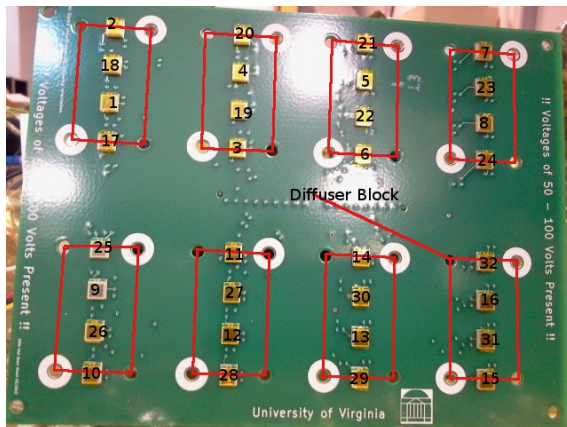
Side facing SIPMs

Do not connect these  
two fiber in front side.  
Channels reserved for  
calibration laser

Board B  
PADE 113

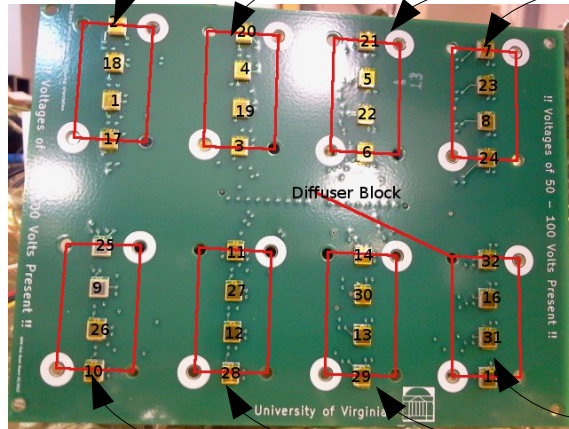
Board C  
PADE 116

Bottom of box



Beam Direction

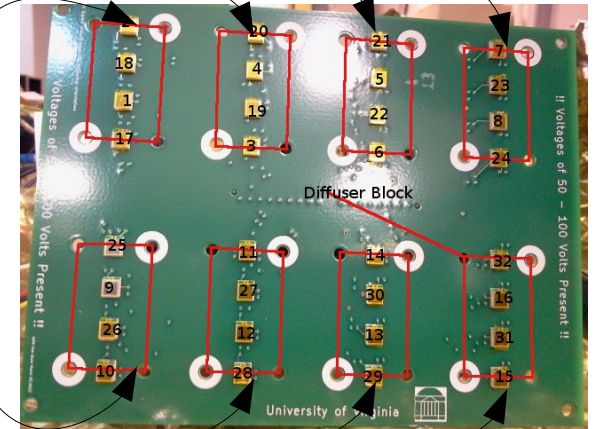
Top of box



|   |   |   |    |
|---|---|---|----|
| 1 | 2 | 5 | 10 |
| 4 | 3 | 6 | 11 |

|    |   |   |   |
|----|---|---|---|
| 10 | 5 | 2 | 1 |
| 11 | 6 | 3 | 4 |

**Module numbering**  
Module 1 is on top side and facing SIPMs



Map to top board

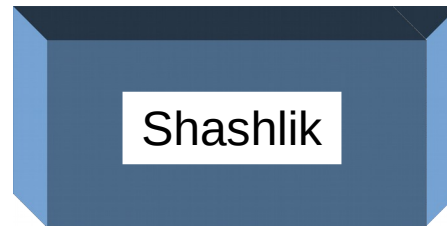


Map to bottom board



Side facing SIPMs

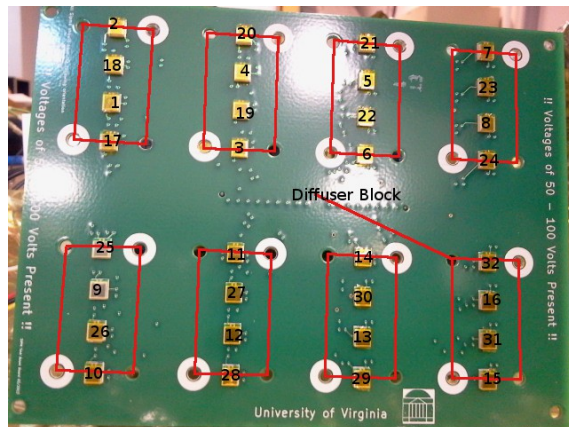
|   |   |  |  |   |
|---|---|--|--|---|
| 1 | 2 |  |  |   |
| 4 | 3 |  |  |   |
|   |   |  |  |   |
|   |   |  |  |   |
| 1 | 2 |  |  | 1 |
| 4 | 3 |  |  | 4 |



|  |  |  |   |   |
|--|--|--|---|---|
|  |  |  | 2 | 1 |
|  |  |  | 3 | 4 |
|  |  |  |   |   |
|  |  |  |   |   |

Side facing SIPMs

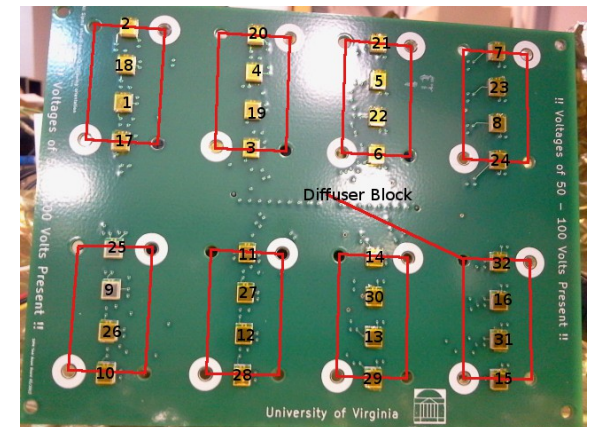
Fiber numbering, CCW from top right (rear view)



|    |    |    |    |
|----|----|----|----|
| 9  | 8  | 7  | 12 |
| 16 | 15 | 14 | 13 |

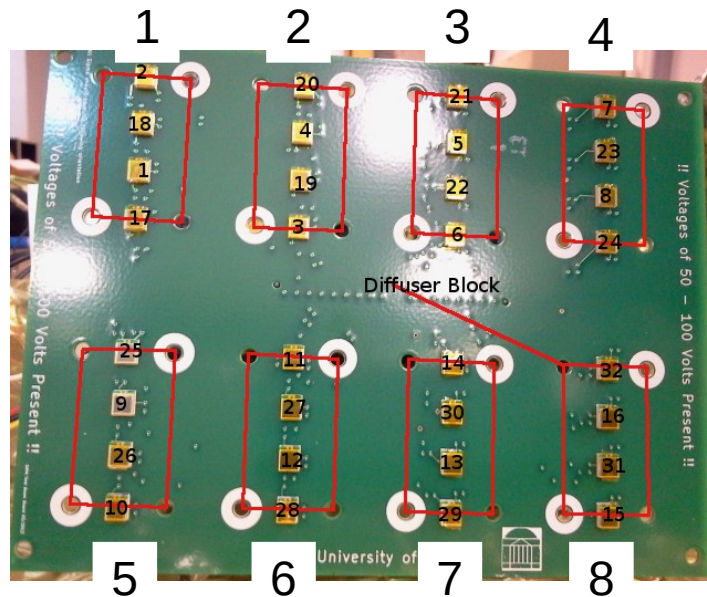
|    |    |    |    |
|----|----|----|----|
| 12 | 7  | 8  | 9  |
| 13 | 14 | 15 | 16 |

Bottom of box



## PADE BOARD VIEW

Diffuser block #



## Tower numbering

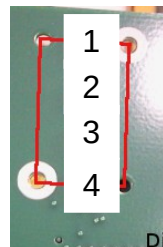
### Front view

|    |    |    |    |
|----|----|----|----|
| 1  | 2  | 5  | 10 |
| 4  | 3  | 6  | 11 |
| 9  | 8  | 7  | 12 |
| 16 | 15 | 14 | 13 |

### Rear view

|    |    |    |    |
|----|----|----|----|
| 10 | 5  | 2  | 1  |
| 11 | 6  | 3  | 4  |
| 12 | 7  | 8  | 9  |
| 13 | 14 | 15 | 16 |

Fiber  
number



Fiber 1 on top side of mounted diffuser

See spreadsheet file for channel mapping list