

Argonne CDFG RFI status



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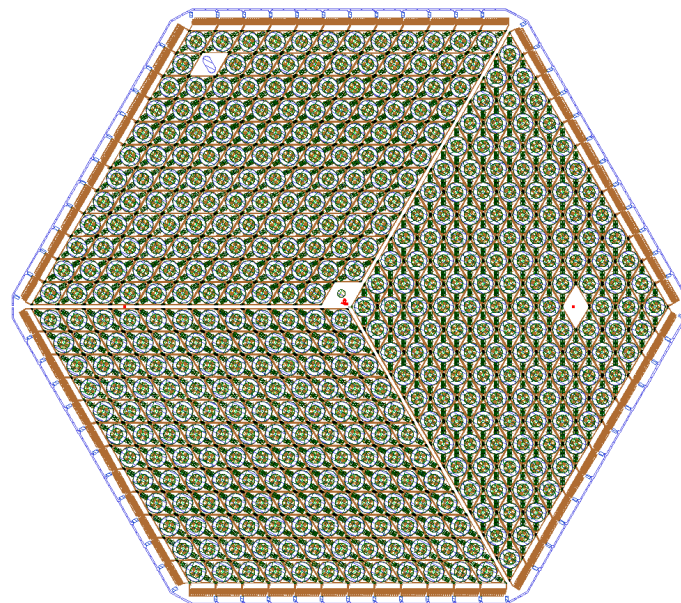
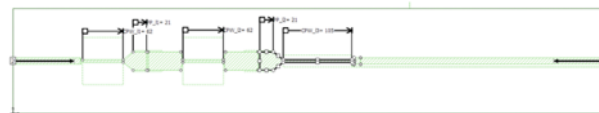
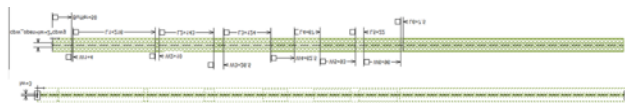
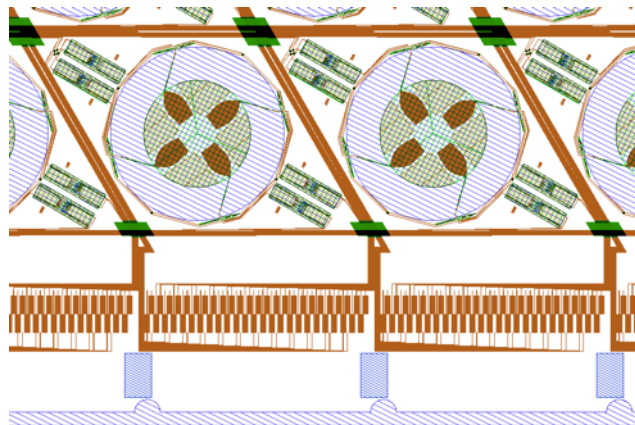
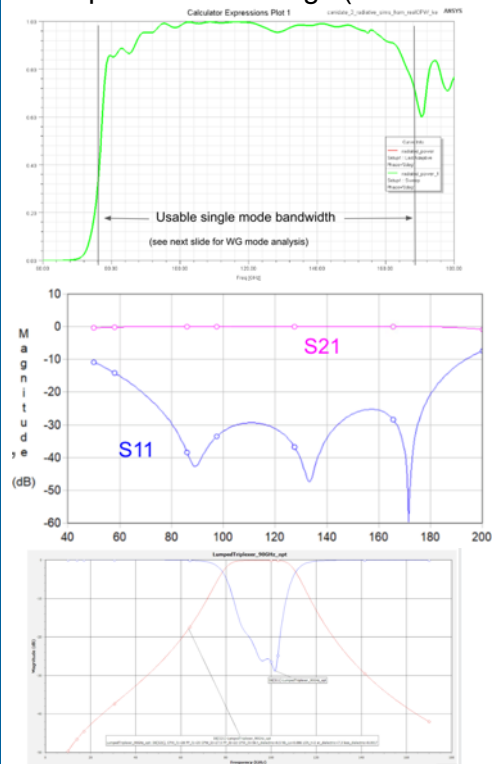
Tom Cecil
High Energy Physics Division
Argonne National Laboratory

Near-term plan

Task Name	Finish
ANL Detector Fab	
Detector test structure measurements	
Dual Tc Wafer mask layout	
Complete: Dual Tc Wafer mask layout	02/08/21
Mechanical & wiring test array development	
Complete: Ship Mechanical & wiring test array to FNAL	03/09/21
R(T) array development	
Complete: Ship R(T) array to FNAL	04/20/21
Dual Tc detector wafer fabrication & QA	
Dual Tc detector wafer fabrication complete	06/15/21
Complete: Ship tested optical detector array AV1 to FNAL	06/15/21

OMT, pixel and wafer layout complete

Updated OMT design (J. McMahon)



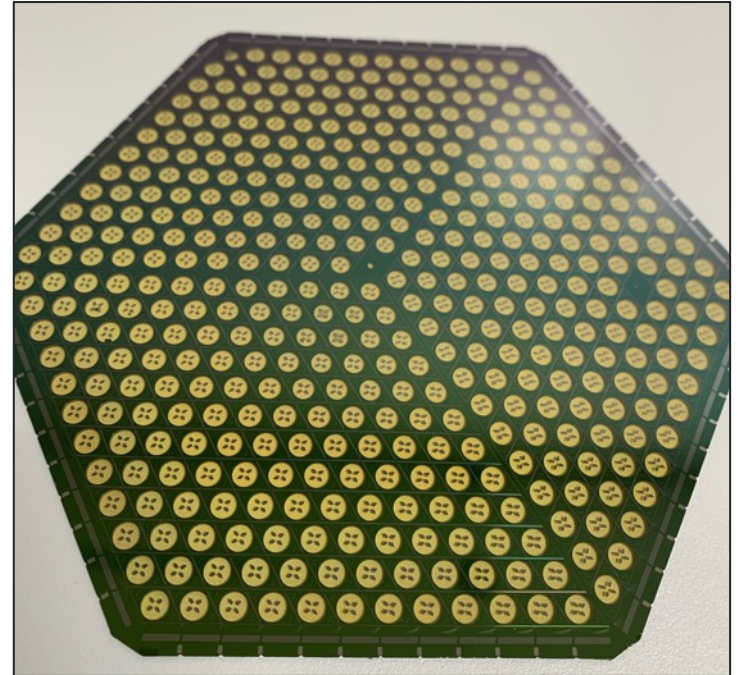
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“Wiring” arrays completed

- Arrays are well suited for tests of module design, interfaces and assembly
- Can provide more of these if needed



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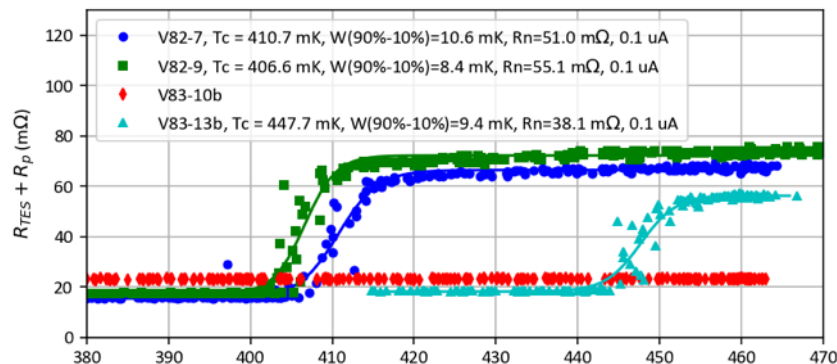
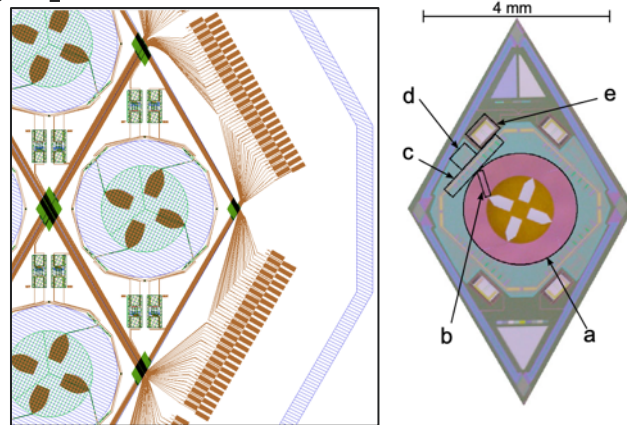
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R(T) test array and detector array plan

Making some adjustments prior to starting

- Change material for calibration (high T_c) TES to adjust T_c down to match revised calibration TES P_{sat}
- Relocate TES to accommodate NIST coupling wafer interface pads
- Will take some time right now, but think provided wiring arrays are sufficient for current module/assembly activities
- After R(T) array is complete, will start fabricating a full detector array for dark testing



FIN



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