# SUMMARY & ACTION ITEMS

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*GRETINA Detector Working Group Meeting*

*ORNL, March 19 - 20*

# Action Items

- **Warm vs Cold FETs?**
  - ******* Major priority 1 item! *******
  - **Can we find a warm FET which equals performance of present cold FET**
  - **Ship 36 seg prototype back and get some segments converted to use warm FETs for direct comparisons**
  - **Talk more with other people (Elec. WG, + LBL + ….)**
  - **Augusto et al**
- **Can we reduce 4 types in triplet to 2?**
  - ***** priority 2 item *****
  - **How does it effect effic?**
  - **Can one reg/irreg type fit all? How does this effect eff?/Cost**
  - **David/John**
- **Quad geometry details to Daniel**
  - **- David**
- **Segment Length Optimization**
  - **Study for 500, 1000, 3000 keV to maximize 1 or 2 hits/segment**
  - **Martina**
- **Anisotropy of Hole Velocity**
  - **Find some help eg. Frank A. knows someone. Paul Luke to follow up also.**
- **Measurement of Anisotropy**
  - **Measure efficiency as a function of segment from on-axis source**
  - **Paul**

# Action Items (contd)

- Update Pulse Shape code (IY + Martina)
- Impurity Concentration as a Function of Radius and our specs (David + Martina +Paul Luke + Daniel)
- Testing Mechanical Tolerances (Jim and Daniel)
  - Mold or CMM?
- Calibrating Inner Surface Segments ( LBNL + Thomas)
- Hemisphere or 2 quarters? Or 2 hemis or 4 quarters? Attachments for support? Can we rule out Lotus? (Jim)
- Transverse mounted support structure is it! End of story.
- Moving GRETINA/GRETA between beamlines (RIA) and/or Labs (Jim)
- Inner radius final decision? (Dave + )
- Accommodate Cables and LN? (Jim)
- Installation of detector modules and retraction for moving? (Jim)
- Number of Chambers and how to support them (DGS + Jim)
- Data Acq system to help Eurisys (Mario + David)

# *TRIPLET vs QUAD: Impact issues for discussion*

1. **Warm vs Cold FET**
2. **Tooling Costs**
3. **R&D + Prototyping**
4. **Production Cost**
5. **Reliability**
6. **Flexibility (aux dets & angular range)**
7. **Efficiency**
8. **Annealing**
9. **Impact on Schedule**
10. **# of Spares needed**
11. **Support structure – grab points etc**