

EPIC TOF PED Request ORNL Contributions

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ORNL is managed by UT-Battelle LLC for the US Department of Energy

Project Engineering Design Resource Request

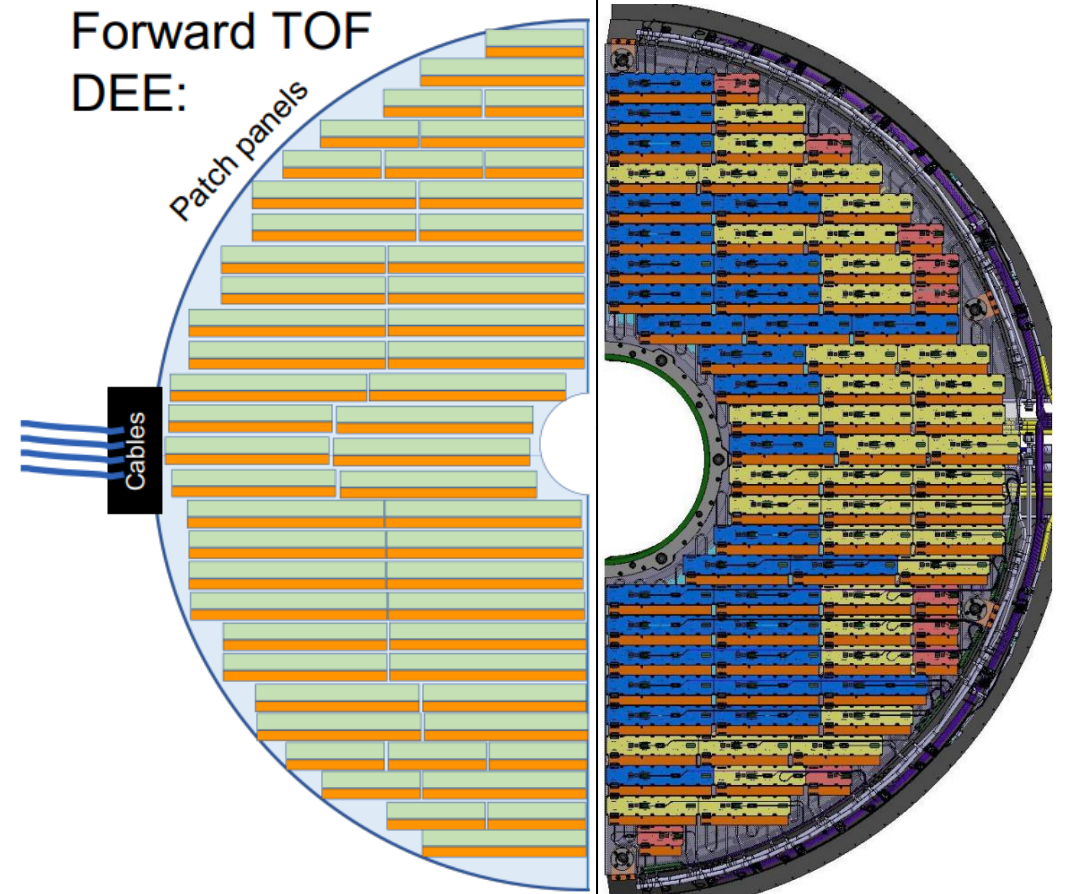
- EPIC project has available resources for engineering tasks
 - “Project Engineering Design” (PED), separate from eRD R&D funds
- PED requests to be submitted to Elke/Rolf directly
 - Concise, “informal”, no deadline -> as soon as possible.
- eRD112 is generating supplementary PED request:
 - Mechanical engineering TOF endcaps, barrel (?)
 - TOF cooling system (recent “hot” topic!)
 - Electrical engineering for readout, services?
- Overleaf started: overleaf.com/read/vftxyvjtrvp

ORNL: TOF Endcap Mechanical Engineering

EPIC TTL

- ORNL proposes to work on mechanical engineering for TOF endcaps
 - Experience in similar projects
- Preliminary design needed for TDR/CD2
- Estimate ~0.2FTE funded effort
 - in-kind staff scientist support

CMS ETL



ORNL: TOF Endcap Cooling System

- TOF endcap heat dissipation has been discussed frequently
 - Project agrees that the only way to solve the perceived issue is engineering and simulations
- ORNL engineers have the expertise and tools
 - Especially in parametric simulations
- Estimate ~0.15FTE funded effort
 - in-kind staff scientist support

Summary

- ORNL can provide engineering for the EPIC TOF endcaps
 - Our engineers have the right experience and expertise
 - Will provide cost effective solutions on time for TDR and CD2
- ORNL contribution to PED request is ready
 - How about the other interested parties?