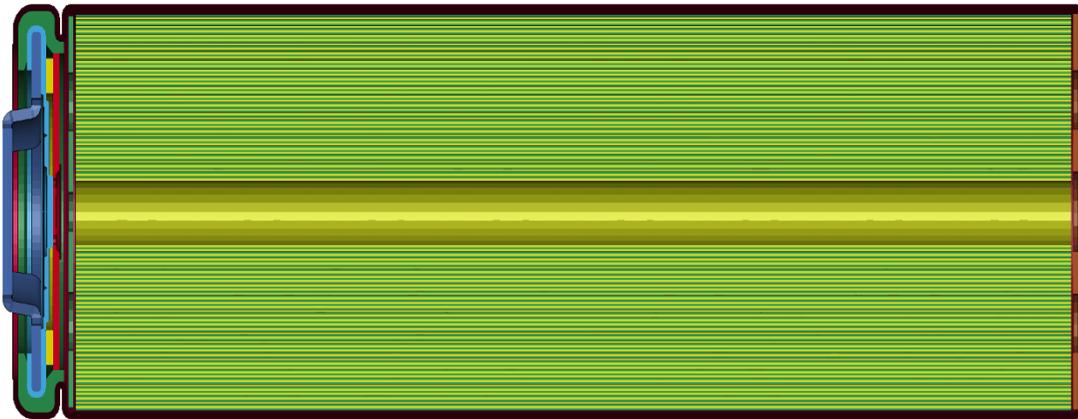# 3D THERMAL PHYSICAL CELL MODEL

Problem Description

- To evaluate the thermal management performance of battery pack, a high - fidelity cell thermal model is essential.

- A physical thermal cell model needs to be able to predict the anistropic thermal behavior of cylindrical cells.

Objectives & Tasks

- FEM model generation/ simplification for thermal domain.

- Thermal parameter estimation of cell materials with the aid of measurements.

- Model validation with experimental measurements.

- Measurement test planning and execution.

- Software Skills: Ansys Workbench (Mechanical)/LS Dyna