

**Goals for the workshop:** Finish hot-dead channel classification scheme, and make initial progress in  $\Lambda_c$  physics analysis

## My To-Do List:

- Hot/Dead channel analysis:
  - Design an algorithm to classify channel status based on hitrate
  - Current strategy is to model fit hitrate distribution as sum of Gaussians,
  - Then use Bayes' Theorem to classify channels based on hitrate
  - Implement it in software workflow and test for consistency
- Analyze  $\Lambda_c$  production in Monte-Carlo and prepare for  $pp$ 
  - Via the  $\Lambda_c^\pm \rightarrow pK\pi$  decay chain
  - First measurements of  $\Lambda_c$  production at  $\sqrt{s} = 200\text{GeV}$  by STAR show  $\Lambda_c/D_0$  production is higher than PYTHIA predicts [1]
  - Goal for workshop is to parse existing files for physics analysis
- Help and contribute to other INTT software as needed

- [1] J. Adam *et. al.* (STAR), (2020), [arXiv:1910.14628](https://arxiv.org/abs/1910.14628) [nucl-ex]