



Response:  
Machine learning, computer  
vision,  
and probabilistic models in jet  
physics

# Progress

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- ∞ This talk is an excellent example of the application of the techniques discussed this week for identification and measurements of physics objects
- ∞ Also a good indication of the speed of progress

# Robustness

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- ∞ Not something we have discussed much this week
- ∞ How robust is the technique against changing conditions?
  - ∞ Pile-up: adding overlapping energy
  - ∞ Changing initial beam energy
- ∞ Practically how much retraining will be needed?
- ∞ Do we even hope to understand the inner workings well enough to allow adjustments without retraining?

# Physics?

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- ✧ To me the most intriguing part of the talk is the concept that the algorithm could show the physics
  - ✧ Which indeed seems like the whole purpose of the week and also the biggest challenge
- ✧ If the end goal is not the answer but the reason, do we need to adjust how we apply these techniques to make digging out the reason easier