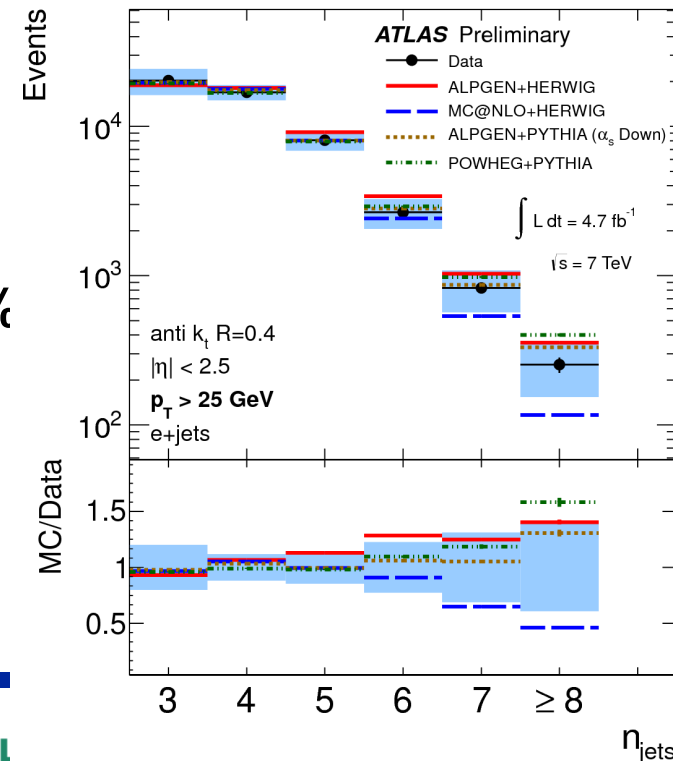


- LHC and theory
- LHC has been a great success
 - Large number of results very quickly: both measurements and limits
 - No unexplained data: “no ambulances to chase”
- History would have not led us to expect this
- What happened?
- Experiments performed well
- **But, huge theory improvements**
- Most of this theory work is in Europe
 - I suspect US fraction is less than 25%



Ian Hinchliffe (opinions)



- **Theorists have a responsibility to the whole community**
 - **Before claiming that some experiment that will take 20 years is “vital”, ask yourself “Would I spend 20 years doing it?”**
- **Support for theory:-**
 - Comes from funding agencies
 - But also from universities who decide who is faculty
 - Much “applied theory” resides in labs: QCD, Monte-Carlo lattice.
 - Europe seems better balanced between labs and universities
 - Something is wrong with US university hiring in theory
 - Not a new problem
 - Agencies cannot fix this: **APS/DPF could help**
- **Need to have a frank discussion of**
 - **Total theory share and distribution of that share within theory**

Ian Hinchliffe (observations)



- **Balance of theory within the program**
 - **Resources are fixed**
 - **Don't waste effort criticizing funding agencies for this**
 - **Only Congress (or a big donor) can make the pot bigger**
 - **Before asking for a larger slice of pie, be ready to argue why someone else should get smaller slice**
- **The future**
 - **Declining budgets hit postdoc and student support first**
 - **Impact on physics may be less in short term**
 - **But a long term disaster**
 - **Limiting summer salaries may have disproportionate impact on junior faculty**
 - **Time is limited: research will suffer if they have to teach in summer**
 - **Less PI's and more support per PI, may produce better science than “peanut butter” reductions**