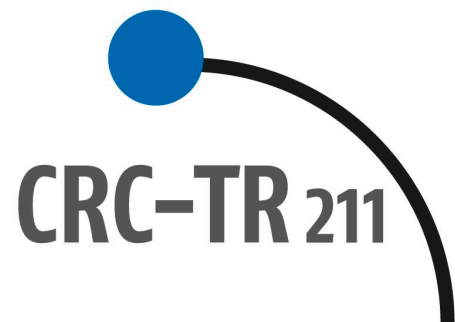




QM Highlights

Hannah Elfner

December 2nd, GSI NQM Seminar



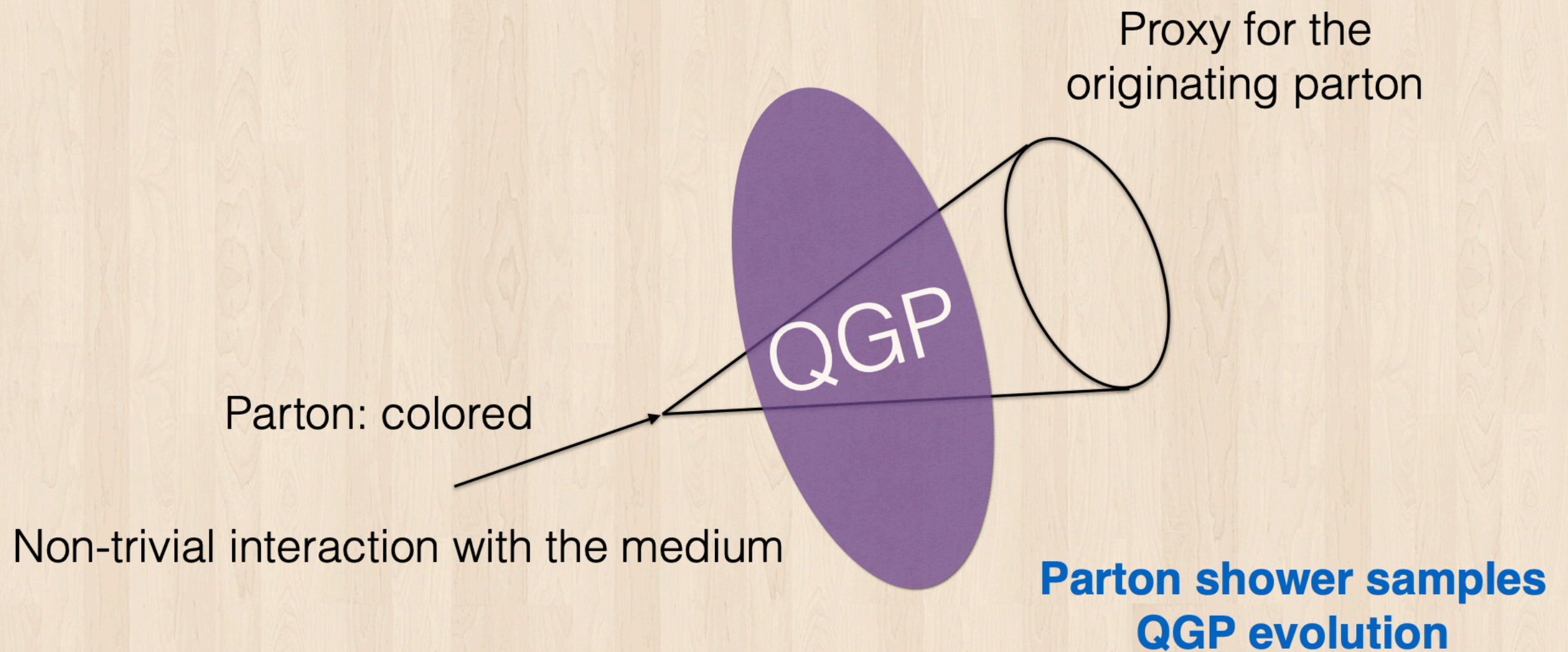
Huge Stage

- With a pool below...



Jets as a Tool

Why jets?



2

Yi Chen, Friday plenary

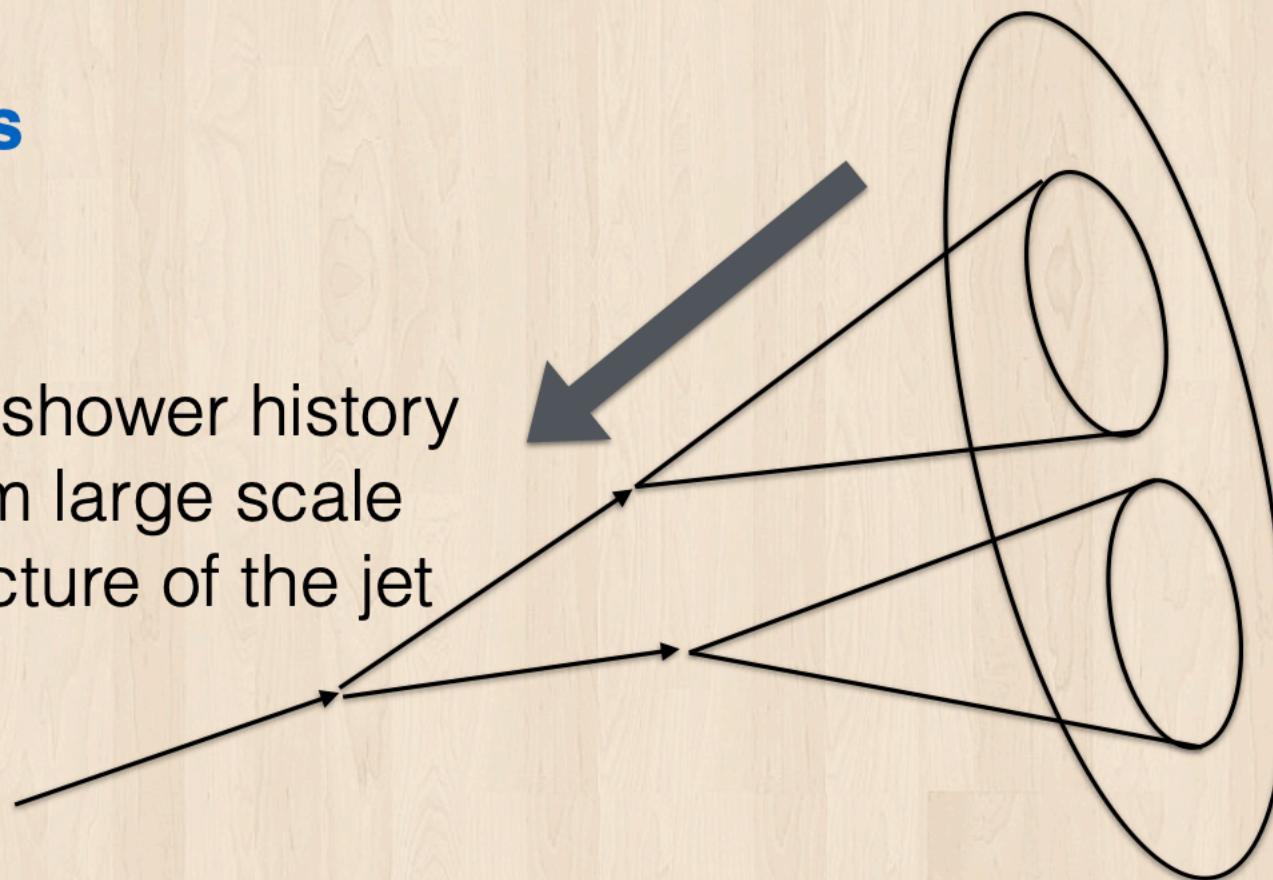
Jet Substructure

Why jet substructure?

Jet is not “point-like” in medium

**Quenching depends
on shower history**

Infer shower history
from large scale
structure of the jet

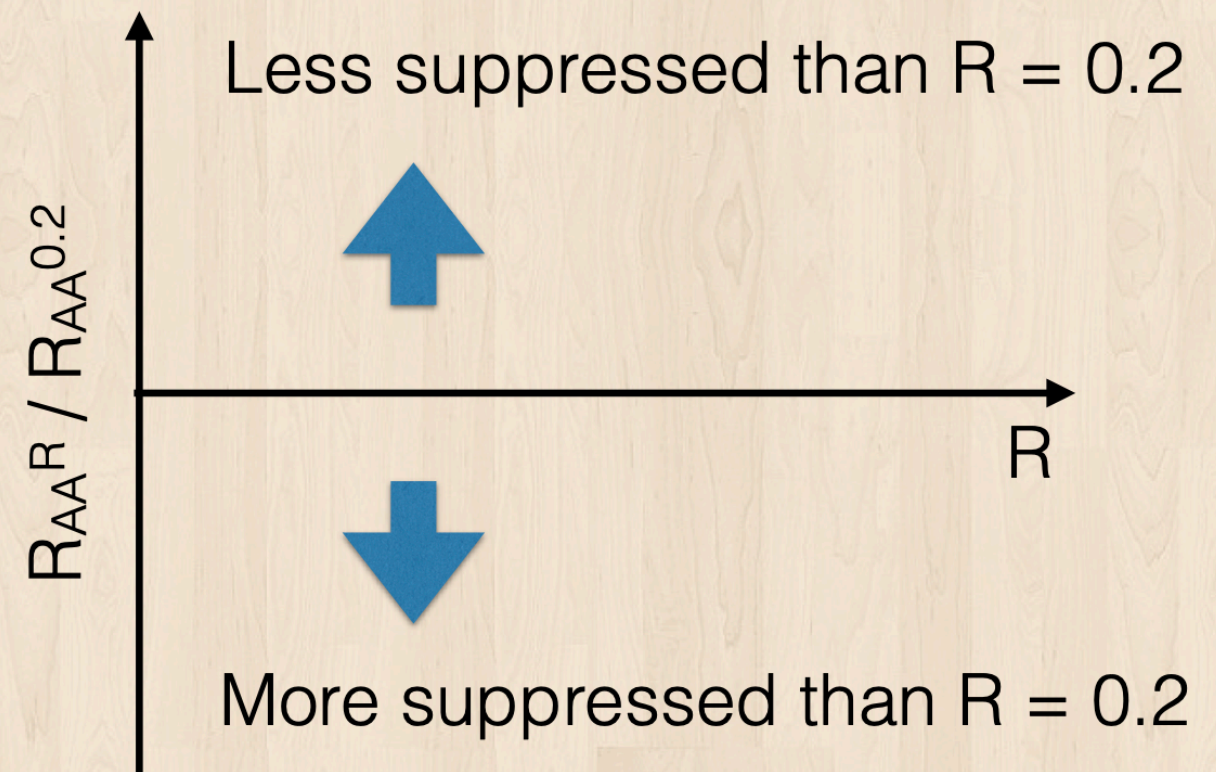
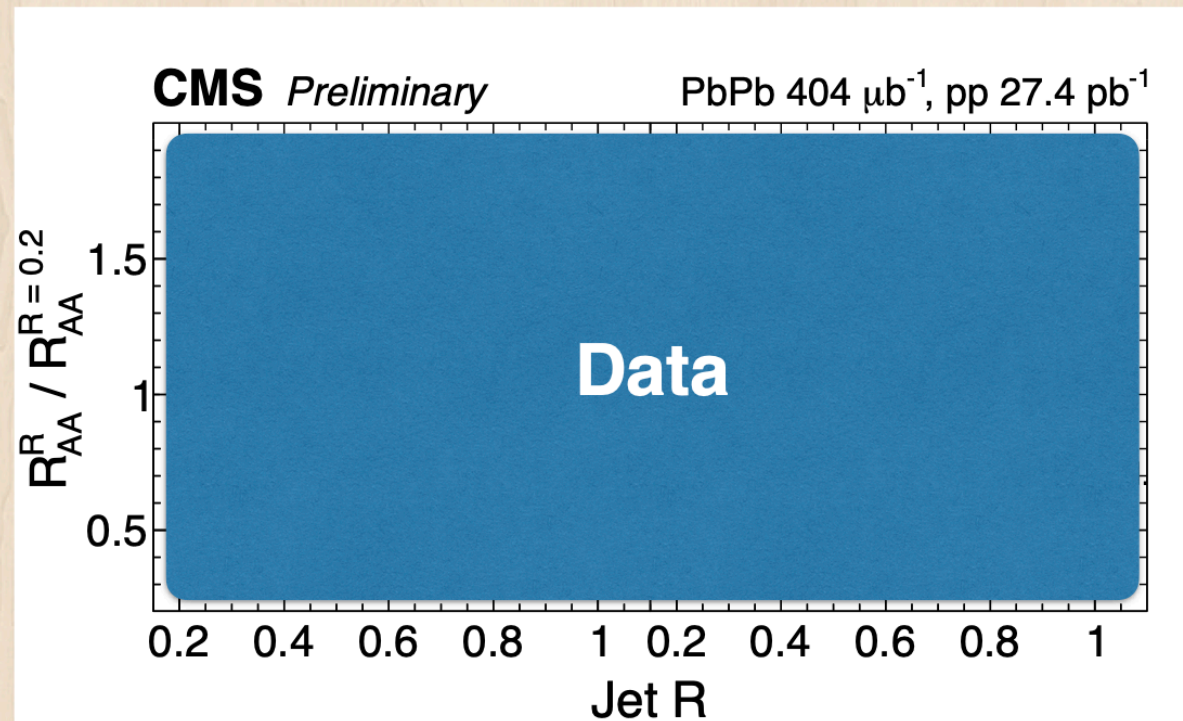


3

Yi Chen, Friday plenary

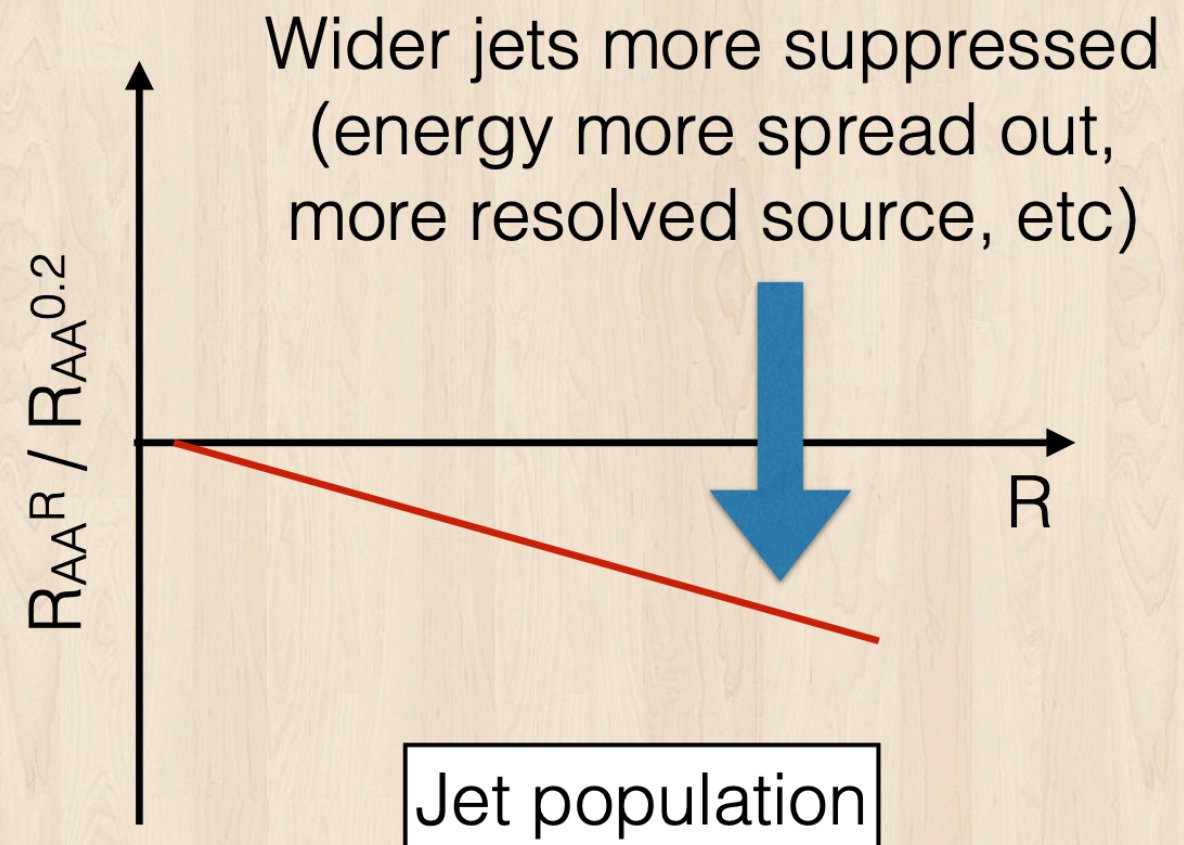
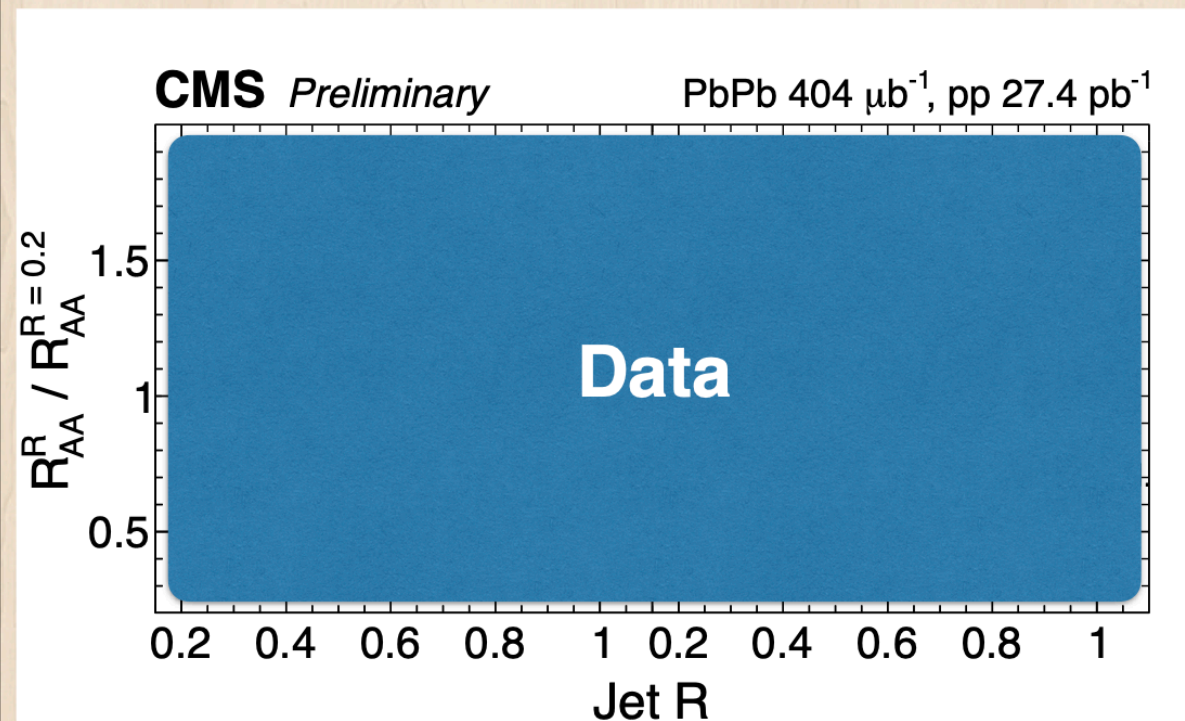
Jet Cone Sizes

R-dependence



Jet Cone Sizes

R-dependence



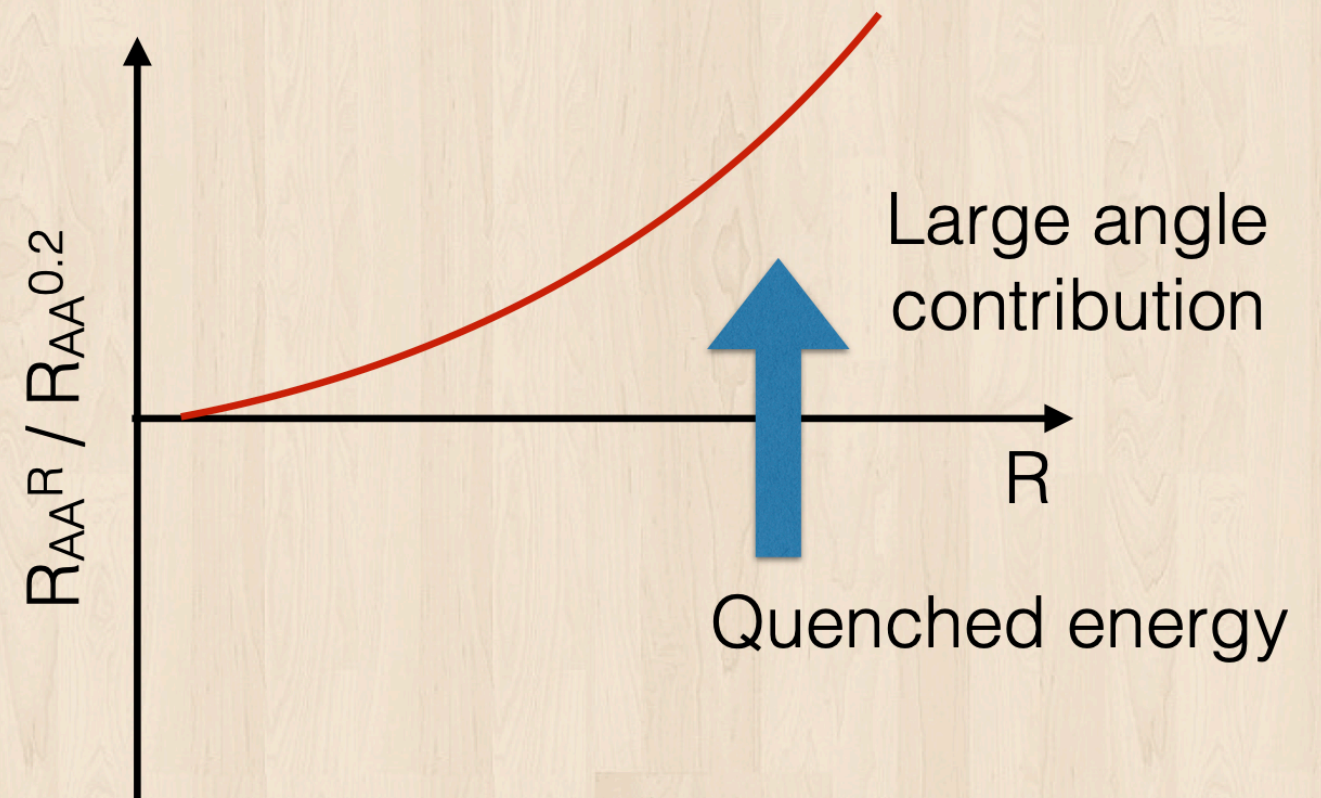
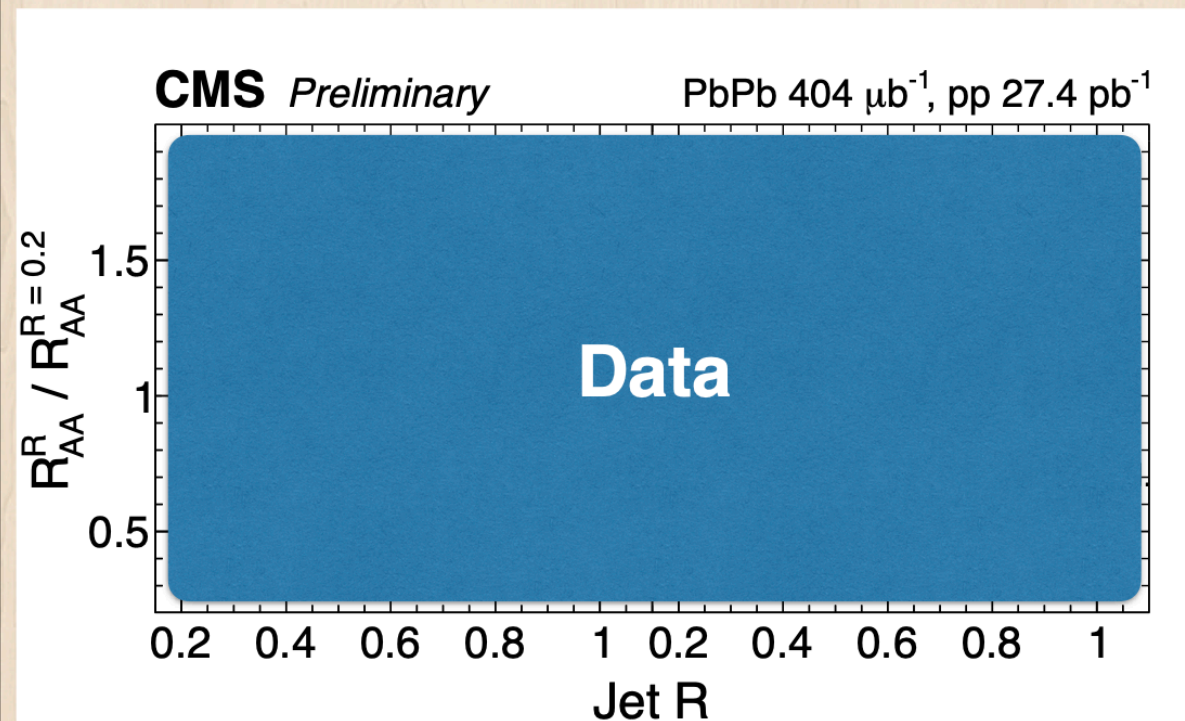
23

Molly Taylor, Wed.

Yi Chen, Friday plenary

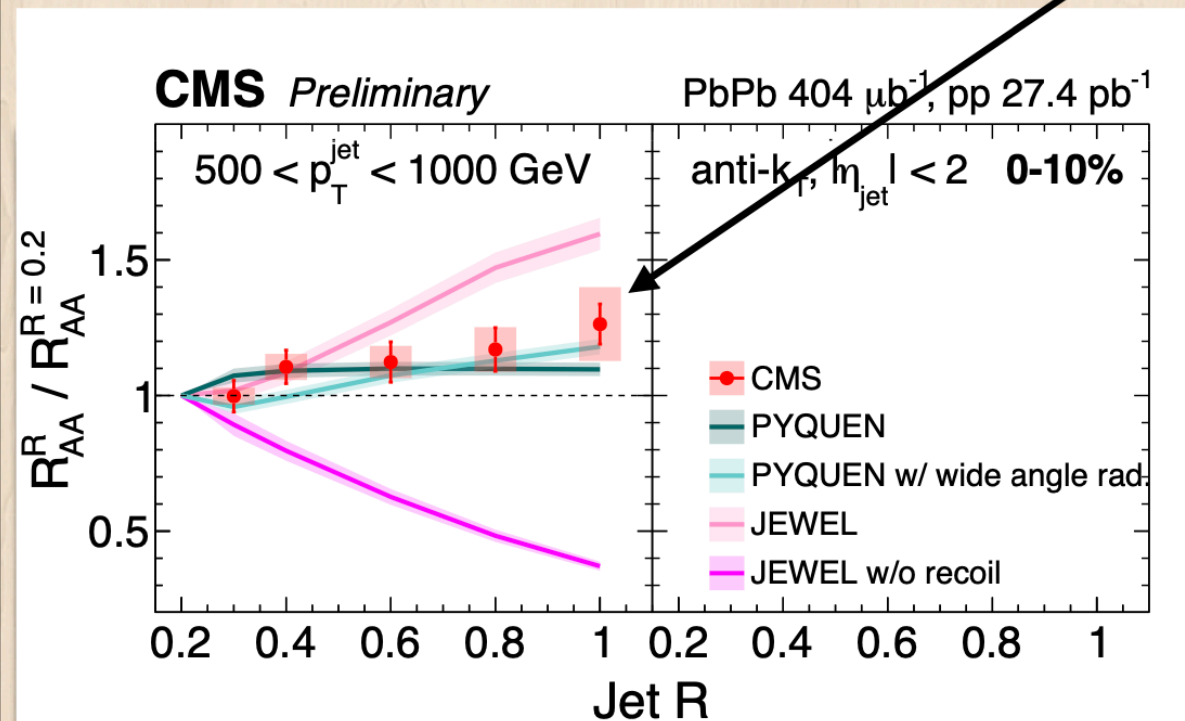
Jet Cone Sizes

R-dependence

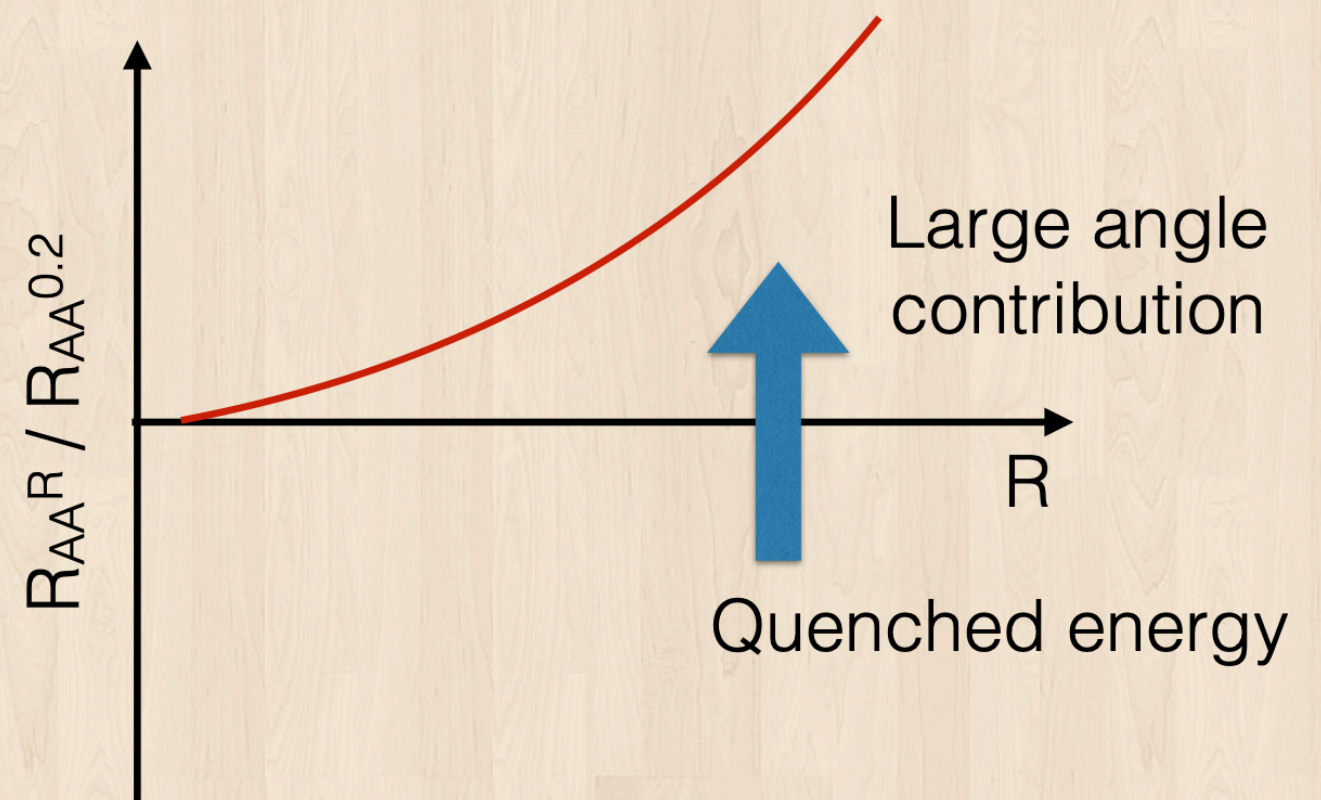


Jet Cone Sizes

R-dependence



Data: R_{AA} increases mildly with R



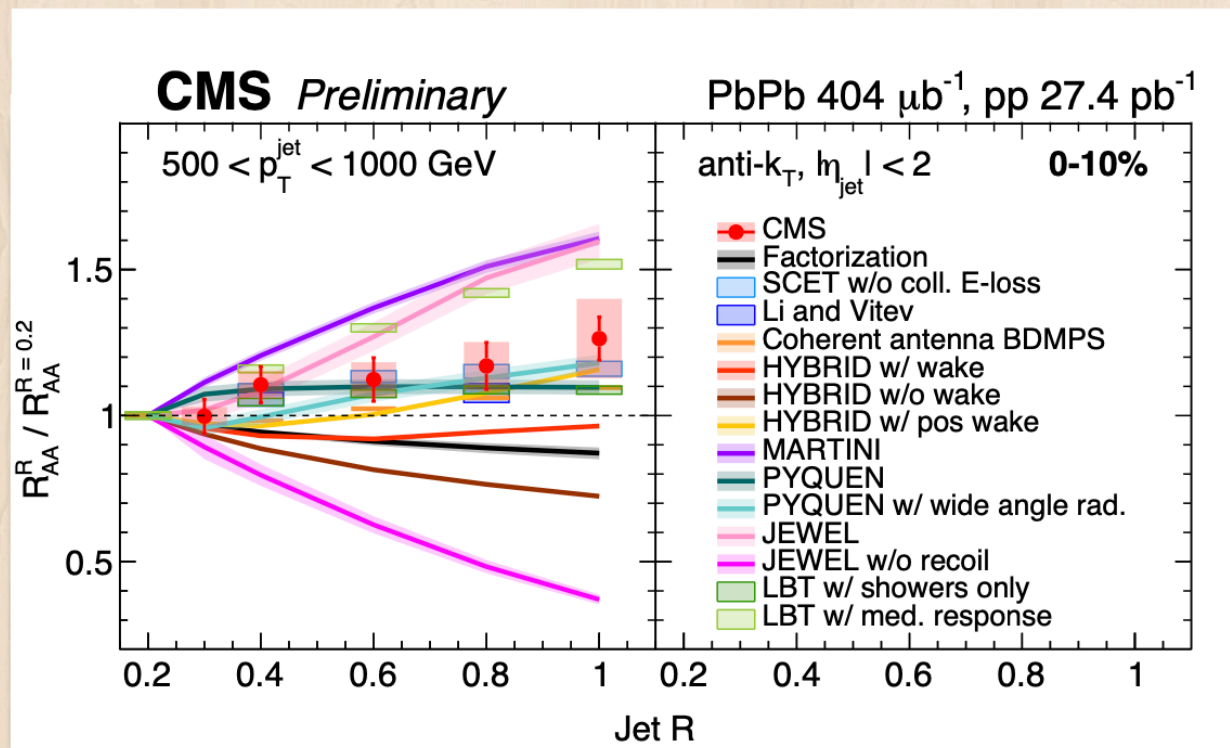
Molly Taylor, Wed.

Yi Chen, Friday plenary

Jet Cone Sizes

R-dependence

Data: R_{AA} increases mildly with R



Many competing effect:
excellent input for theories

See also K. Tywoniuk, T. Luo, L. Apolinario

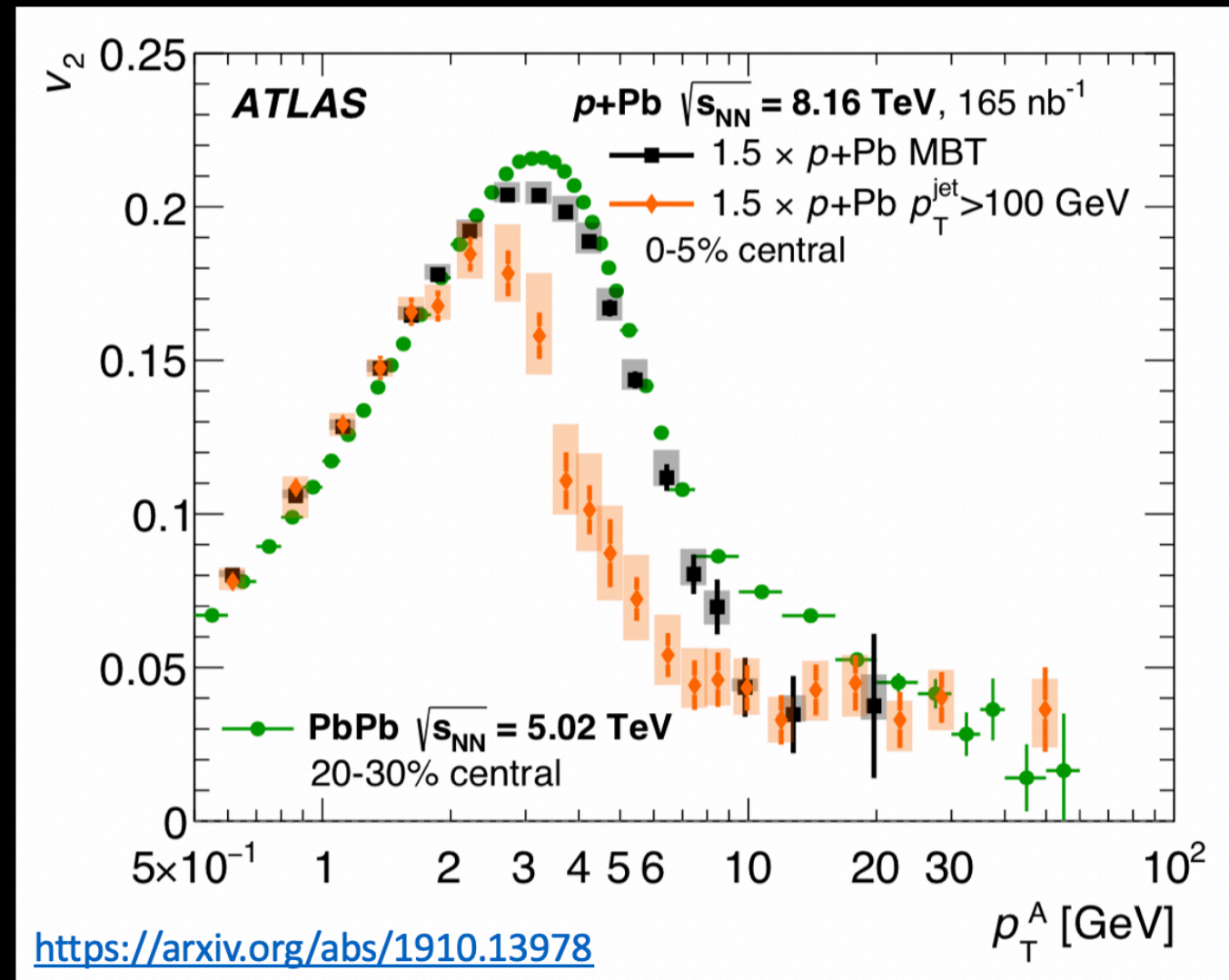
High p_T v_2 in Small Systems

Differential Jet Quenching?

Definitive evidence for high $p_T \sim 50$ GeV v_2 in $p+Pb$ using jet triggered events

How can there be differential jet quenching without jet quenching!

Unknown source.



Tension in A+A both in jet quenching and heavy quarks (R_{AA} and v_2) should now be viewing in conjunction with these small system results

Jamie Nagle, Monday plenary