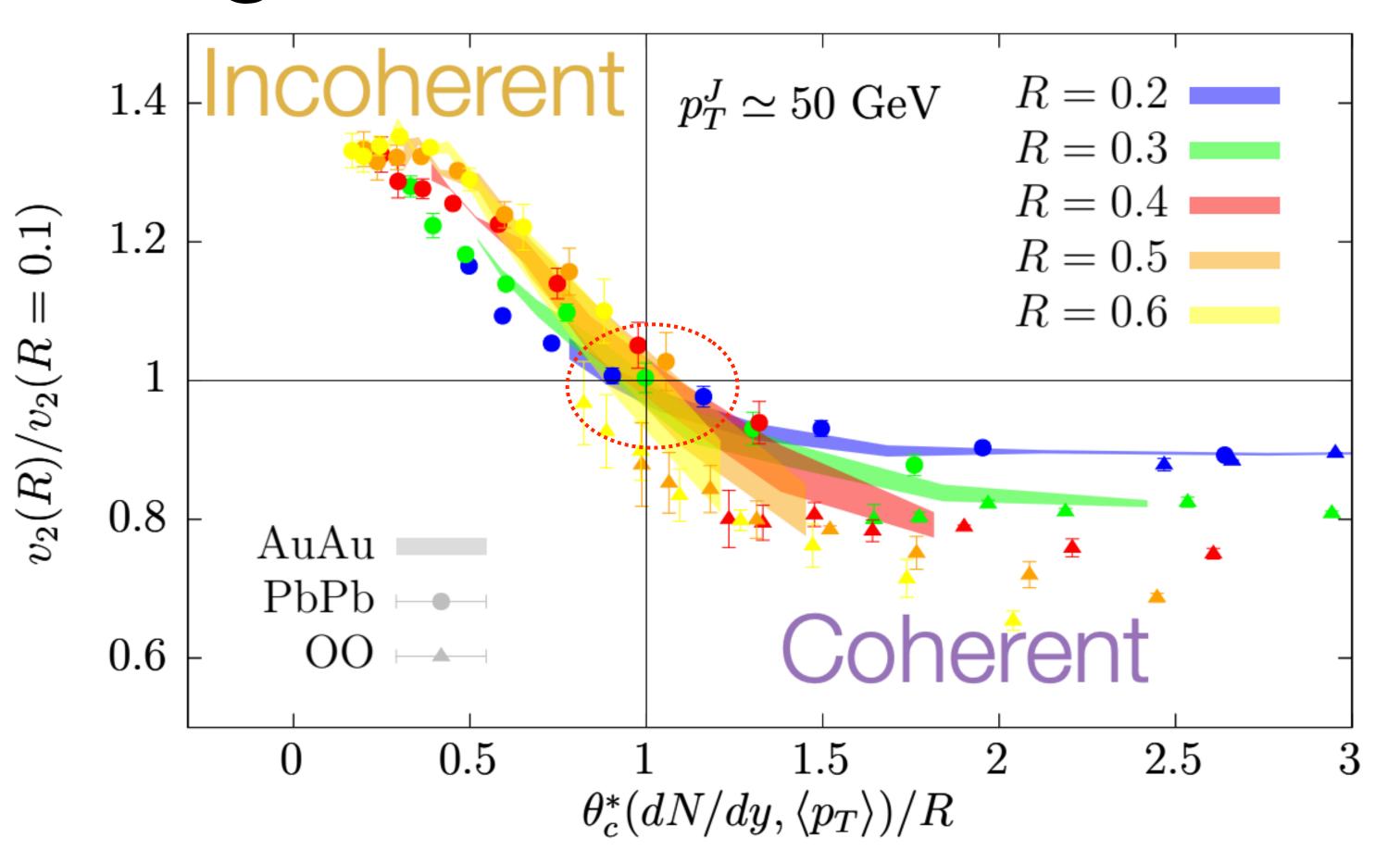


QM: The good, the bad, the ugly

Hannah Bossi (MIT) April 18th, 2025

The good

Talk by Alba Soto-Ontoso] [Backup slide from talk by Adam Takacs]

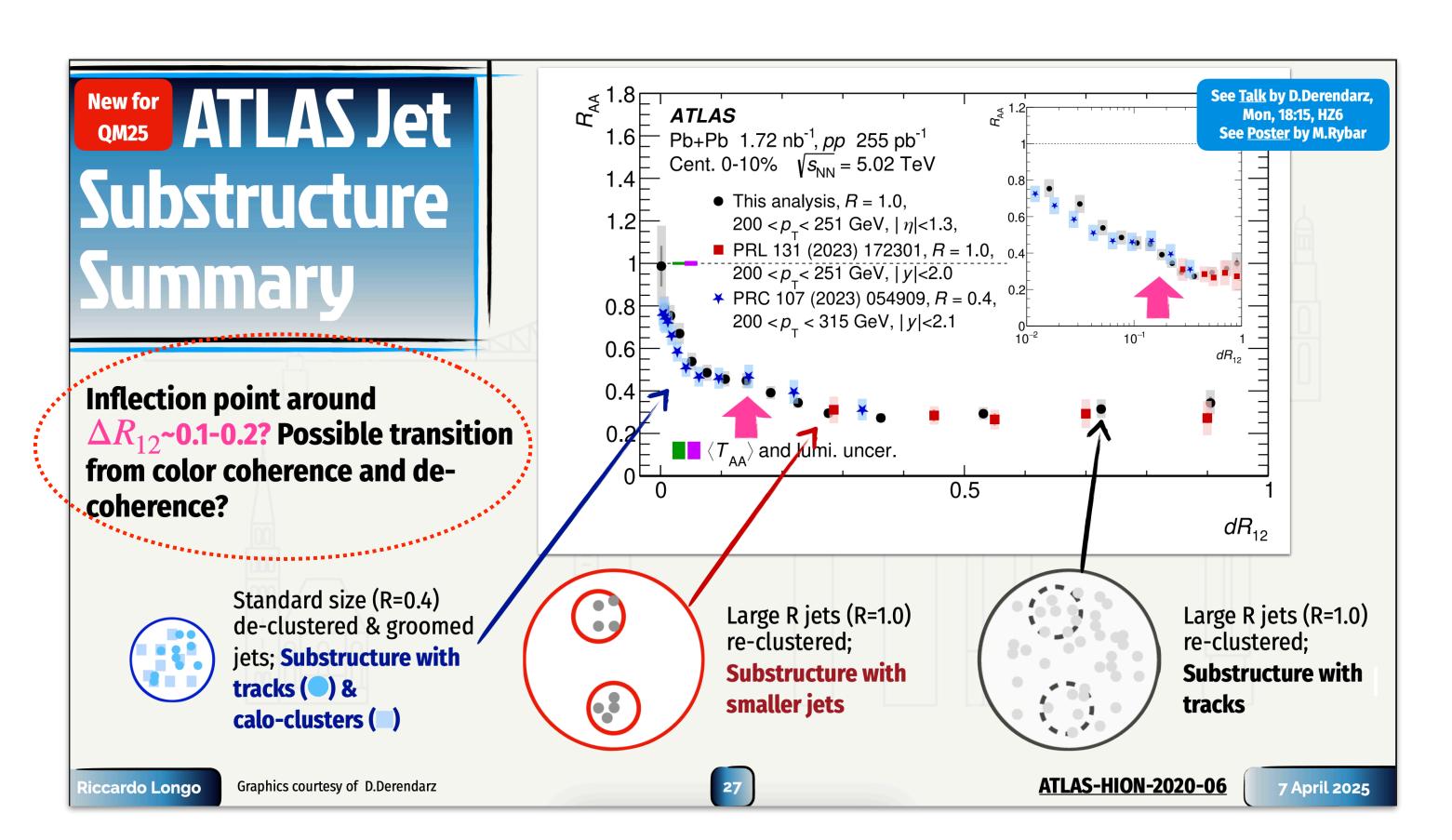


- Jet v_2 double ratios (wrt R = 0.1) as a function of the angle normalized by R.
- Crossing point of double ratio with unity allows for experimental extraction of coherence angle.

• Pros: Experimentally (relatively) easy (info visible without going to large R), extraction of coherence angle that is not model-dependent.

The bad(ish)

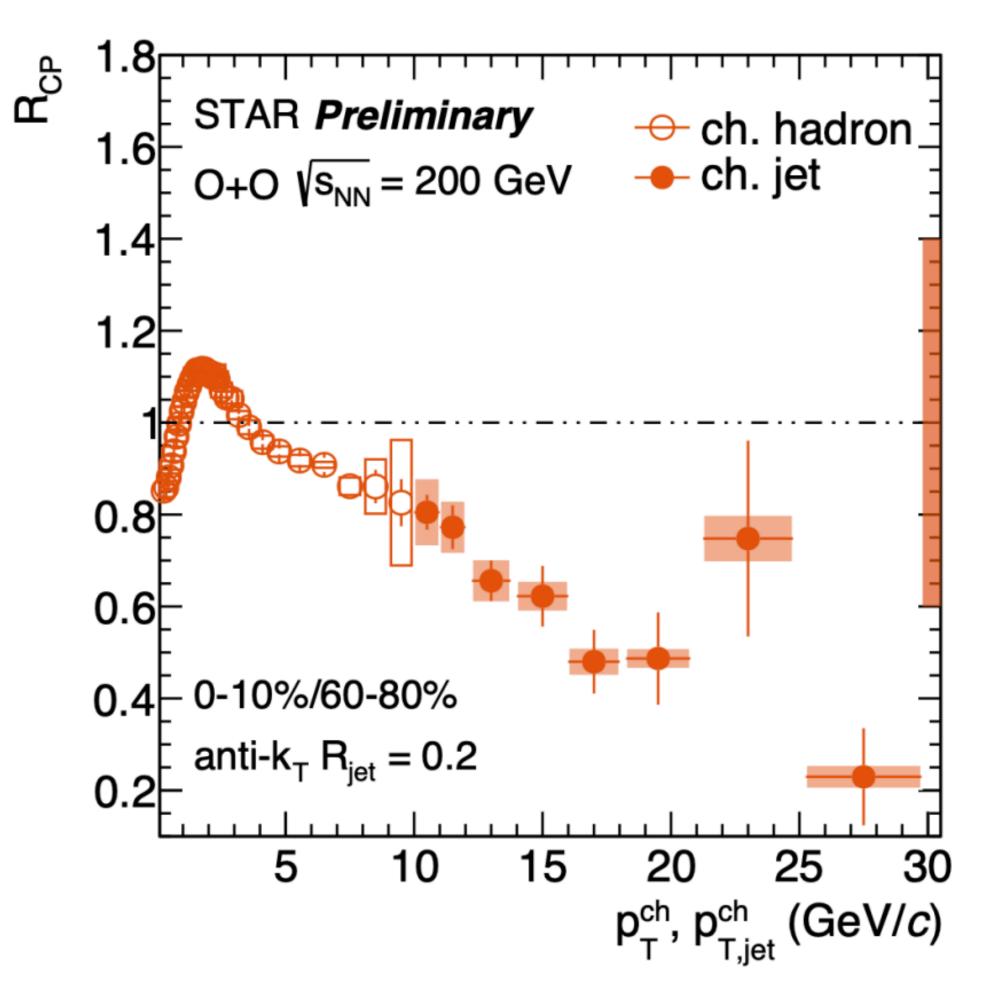
[ATLAS Overview by Ricardo Longo] [Talk by Dominik Derendarz]



- Cool measurement with dangerous overstatement of conclusions in plenary talk.
- Why it's cool: impressively differential measurement that does have sensitivity to coherence angle (sets a bound on where it can be) and corroborates narrowing picture.

• Why it's dangerous: changing of q/g fractions can cause very similar inflection points.

The ugly [Talk by Sijie Zhang (STAR)]

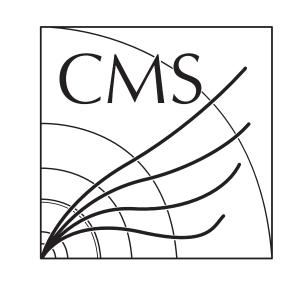


- Many irresponsible things...
 - No proper evolution of the centrality bias in the different centrality classes.
 - No pp reference (apparently ever?
 - Comparing charged hadron $p_{\rm T}$ to charged jet $p_{\rm T}$ on same plot (10 GeV charged hadron does not come from a 10 GeV charged jet)

• Peak irresponsibility: "Hint of jet quenching in OO" (way too early to make this claim)

Also ugly [Talk by Sigurd Nese (ALICE UPC D0)]





Backup (Honorable Mentions)