What do we know so far

- Large modification of jet yields
  - Jet RAA = 0.4-0.5 (R<=0.5)
  - Large energy imbalance A_J

Suggests **significant out-of-cone radiation**
Most likely at low p_T (CMS measurements)

How do we move forward?
- Need to get a handle on the radiation
- Characterise angles, p_Ts, set limits?
- Can we *convince ourselves* that we know 'where the radiation goes'?

What do we know so far II

- ‘Small’ modifications of remaining jet structure
  - Fragmentation function mods look modest
  - Some excess at large R within jet, but looks modest as well...

NB: maybe the ‘small’ modifications are all of the story?

Can we get a more mechanistic picture of how these things hang together?

How do we go after (possible) soft large angle radiation

The obvious suggestions:

- Measure jet spectra with larger R
- Radial profiles in jet with large R

Experimentally extremely challenging (or impossible?)
-Can we get guidance from MC/models how promising this is?
-What R would we need?

Other possibilities?

- CMS momentum balance observable; how sensitive is it?
- Is it possible to measure radiation outside a jet cone?
  (reconstruct jet with small R and look outside it;
  some induced corralation biases...)

Each of these is a major (experimental) effort

First look in models?