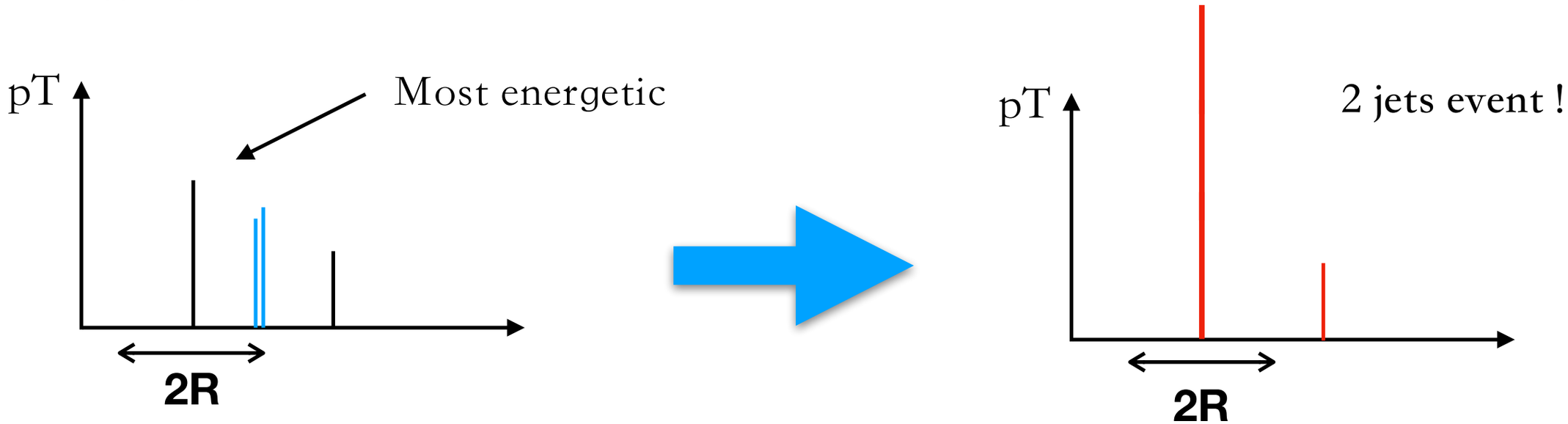
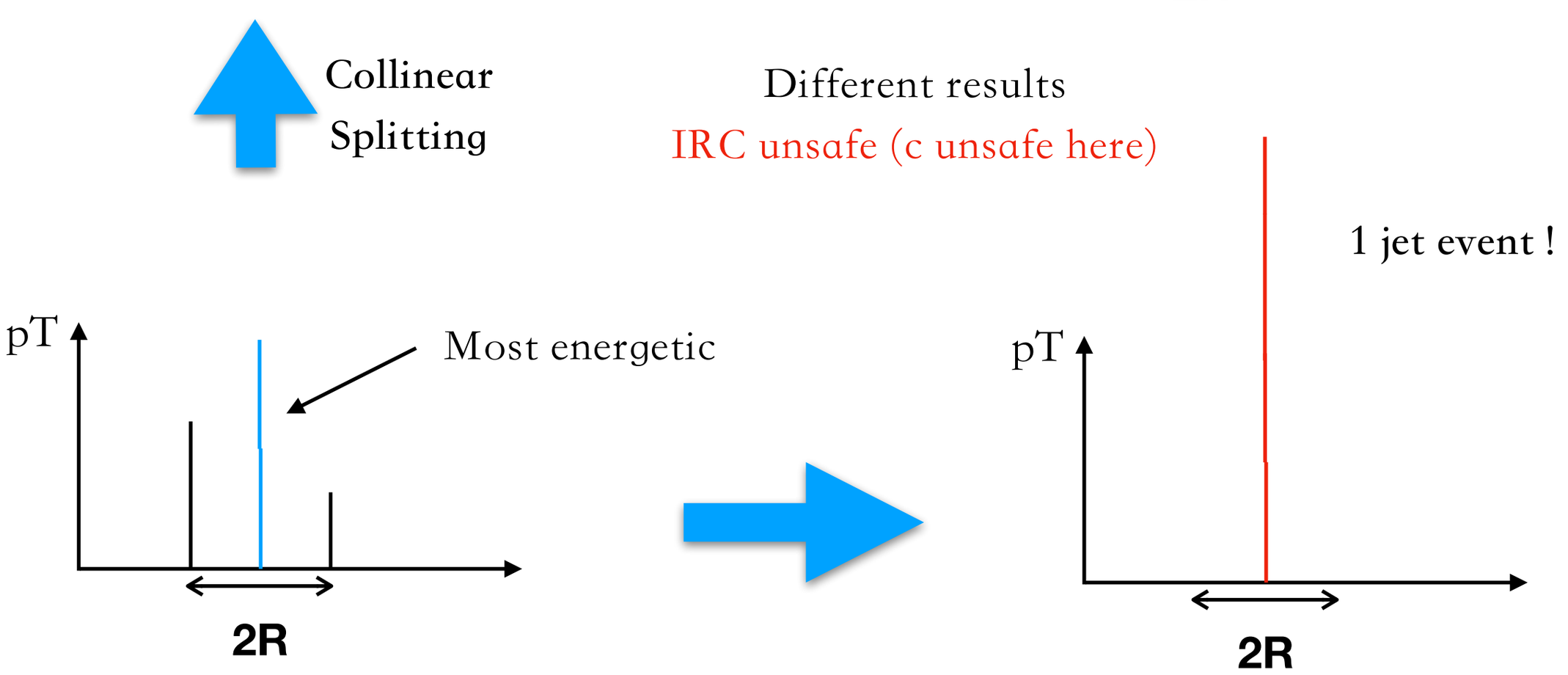
Cone algorithm around the most energetic particle:

- Find the most energetic (psuedo)-particle, Draw a cone with radius R around it.All particles within R form into a psuedo-particle
- Iterate





Other examples:

- Multiplicity (IRC unsafe)

$$\sum_{i \in J} 1$$

- Jet charge
  - Kappa = 0, infrared unsafe (adding a soft charged particle changes the charge)
  - Kappa > 0, collinear unsafe (collinear splitting changes the charge

$$\sum_{i \in J} \left(\frac{p_{T,i}}{p_{T,J}} \right)^{\kappa} Q_i$$

But all of these are experimentally well-defined operations or measurable physical observables