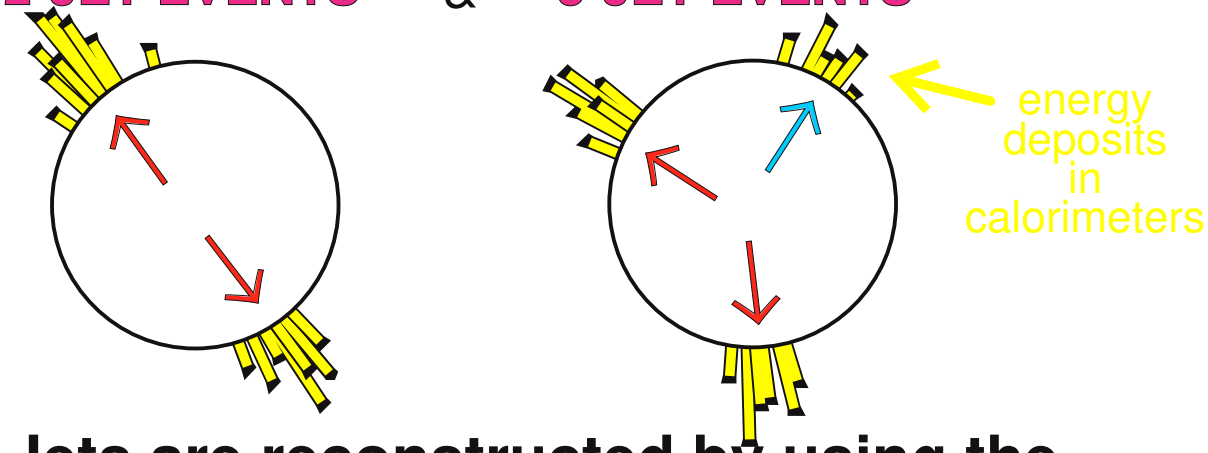
# Jet reconstruction

**For the next part of this analysis, we need to distinguish:**

**2-JET EVENTS** & **3-JET EVENTS**




**Jets are reconstructed by using the LUCLUS algorithm with $d_{join}$=7 GeV**

$$d_{ij}=2\cdot\frac{E_i\cdot E_j\cdot\sin(\theta_{ij}/2)}{E_i+E_j} < 7 \text{ GeV}$$

**where $E_j$ are energy deposits in calorimeters**

Events with more that 3 jets are called 3-Jet events

| | DATA | JETSET | HERWIG |
|---|---|---|---|
| 2-JET EVENTS | 70.6% | 69.8% | 70.5% |
| 3-JET EVENTS | 29.4% | 30.2% | 29.5% |

Reconstructed particles are associated to the closest jet.

G,Forconi Aug-97