

Why not look at K events?

- K events, each (N successive 2-body decays)
- $KD + (N+1)$ **unknowns**: comprising
 - KD unknown momentum-components for final “missing particle”
 - $(N+1)$ unknown backbone-particle masses
- $K(N+1)$ **constraints**:
 - Invariant masses of the backbone-momenta must match the “unknown” masses
- $\text{UNKNOWN} - \text{CONSTRAINTS} = K(D - (N + 1)) + (N + 1)$
- System solvable for $K \geq \frac{N + 1}{N + 1 - D}$ provided $N + 1 > D$ i.e. $N \geq 4$.