

The limits on the hadronic energy resolution

- *Why is hadronic resolution so much worse than em resolution in same detector?*

Fluctuations in “invisible energy” : ΔB

- *Dual-readout is based on the assumption: $E_{non-em} \propto \Delta B$*

- *Compensation is based on the assumption: $\sum E_n \propto \Delta B$*

works better in high-Z materials (exception U!)

- *The dual-readout assumption works BETTER and does not depend on Z*

Already for < 2 tons, DR beats ZEUS/SPACAL

- *The combination of the two methods gives even better results*

Energy (GeV) \longrightarrow



