CLEO Observed dE/dx Performance

- Smaller high-side tail than Argon (no high-E K-shell e^-)
- Single hit resolution slightly better
- Efficiency boost: more hits $\rightarrow \sigma \sim n^{-0.43}$

dE for e(plateau)/π(min-I) [Relativistic Rise]

- Ar-C_2H_6: 1.39
- He-C_3H_8: 1.35

Single-cell resolution:

- Ar-C_2H_6: 29.6 (28.3) $\pi\,(e)$
- He-C_3H_8: 27.9 (23.8) $\pi\,(e)$

Overall resolution:

- Ar-C_2H_6: 6.0% π
- He-C_3H_8: 5.5% π

[dE(e) - dE(π)]/σ:

- Ar-C_2H_6: 6.1
- He-C_3H_8: 5.7

π/K at 2.6 GeV

- Ar-C_2H_6: $\sim 1.7\sigma$
- He-C_3H_8: $\sim$similar