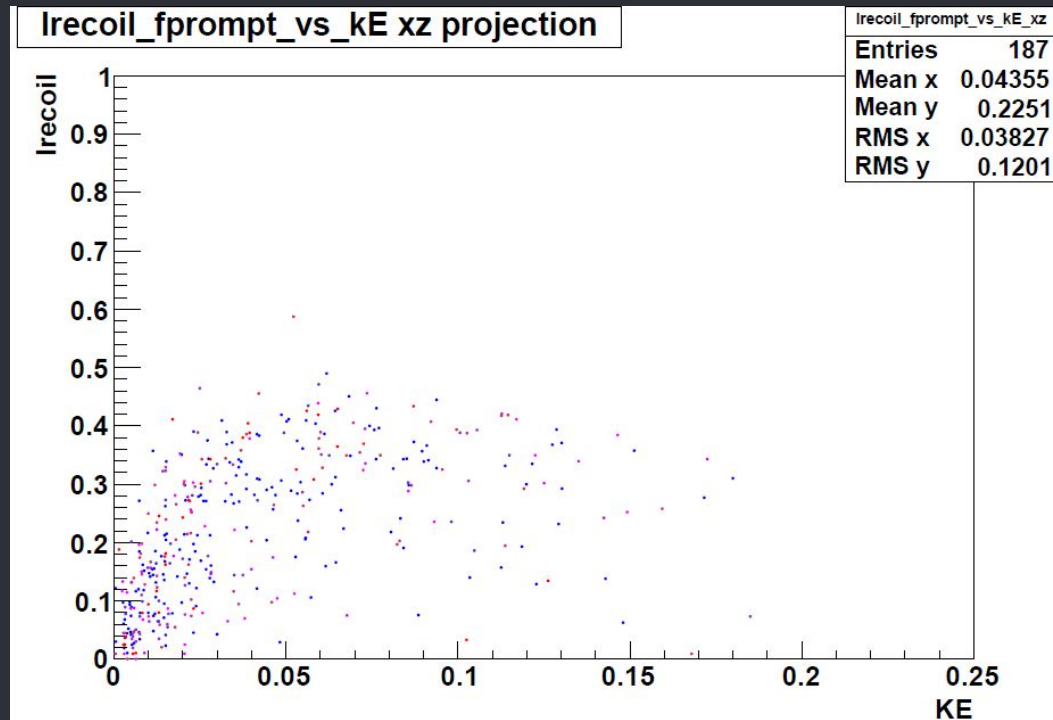## Updates

Triplet Lifetime in Gaseous Argon paper has been completed and have started the submission process.

There appears to be a slight right/downward trend as the data points become more blue, but I'm running more data now to get a larger distribution.

Work Now

With this paper, they have a more rigorous and valid triplet lifetime shift as a function of contamination, so using this,

$$\tau_m = \tau_N / (1 + k^*\eta)$$

Where τ_m is measured triplet lifetime, τ_N is lifetime with zero impurity, η is the impurity level, and *k* is a fit constant.

Using this improved triplet lifetime function, I could use these to make further simulations to find contamination-dependent changes in important histograms / for pulse discrimination.