Update on: Checks on optics matrices, New LHRS Gmp optics matrix, and work on energy loss corrections

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Optics checks

- Last week, we found out that the LHRS Gmp optics matrix that the Tritium experiments were using was not the most updated one.

- We replayed the data using this "new" LHRS Gmp optics matrix and compared it to the distributions obtained using the "old" one.

- The optics check includes:

* multi-foil data: yptar should be independent from z_{reac} (vertez zcoordinate in Hall Coordinate System)

* hydrogen data: W² (relevant for LHRS) should be independent of the "target" variables (ytar, yptar, xptar, delta)



Checking optics matrices (Hydrogen data)



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