Neutrino Data Workshop @ Fermilab – Implementation Plans July 25-26, 2019

CLASSROOM IMPLEMENTATION

STUDENT OPPORTUNITIES OF FERMI

FULL STATISTICAL ANALYSIS OF

REAL PHYSICS DATA EPPESENTATION

PRACTICING GRAPHING

LINEAR REGRESSION MODELING

CREKTE COMPUTER MODELS

FROM RESULTS

SHOW DISCUSS REAL LIFE DATA

AND SOME APPLICATIONS (VOCAB)

MATH MODEL REAL DATA

PICE LAB

TWO-SIDED COIN EXPERIMENT

POSTER PRESENTATIONS

Mautrino Implementation

Histograms - SAT prep
graphing

Real application of science

Minerva - Conservation of
Momentum

Standard Model Collaboration

Adding Vectors, etc. Wavel
particle

Data analysis duality

Experimental Uncertainty

Implementation

- · Decay activity
- · Highlight complementary variables
- · Histograms for pooling class data - Error bars / Statistical analysis
- · All activities reinforce basic skills - Protractor use, etc...
- · Bump bardment of enery to see

 "ghost" neutrinos, because they
 are low energy & hard to see Michell-

CIFISSROOM I MPIEMENTATION Histograms Statistical Analysis Modern Physics Critical thinking skills Half life Particle Physics Scientific Thinking Data Cathering Callaborative groups Callaborative groups Diffraction Particle Wave duality

