**Workshop Location**: Rossville High School

**Goals of the Science Experiment (e.g., CMS, LIGO) (If you are working on the Cosmic Ray e-Lab, you can leave this section out.)**: CMS

**Grade(s)/Context**: Physics AP-12thgrade/Physics I-11th and 12th

**Challenges**: Some students have already back ground in particle physics and a year of physics(AP) some students will never have been in a physics classroom, these students will not know what physics is(Physics I)

**When/Where**: Aug 17th 2012

**Learning Objectives**:

**Use the CMS Elab “Getting started-Ask the Big Questions” to discover and write at least one question that physics is working on at present.**

Identify topics that are integral in the study of introductory physics and that is used by physicists to solve Big Questions of today.

**Standards**: **INDIANA 11-12.RS.2** Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.

**Steps:**

1. **Set-up student accounts in elab**
2. **Have students write a lists of topics that they believe are covered in physics (at least 3-PHYI, at least 10-AP PHY)**
3. **Pair AP students to share-Pair PHY I to share**
4. **Make AP/PhyI pairs share**
5. **Log In CMS Elab**
6. **Discuss Log book requirements**
7. **Let students explore “Getting Started-Ask the Big Questions”**
8. **Compile logbook entries**
9. **Look at commonalities/differences**
10. **Summarize topics and look forward to tools and course of study master the topics**

**Follow-Up Date: Aug 30th, 2012**