ATLAS Student Operations Shift Report: ATLAS Data Express

Describe the tests to determine if the ATLAS detector is calibrated.		
Reason this is important to ATLAS operation:		
Physics principles in detection and measurement of electrons and mu-	ons:	
Reasoning to support that the tests described above will determine if calibrated.:	the ATLA	S detector is
Claim:	+	Evaluate the test results to determine if the ATLAS detector is calibrated.
Questions to consider: What is the mass of the Z boson according to your measurements? What is the ratio of dielectron to dimuon events? Are these results consistent with the known Z mass? With the ratio of dielectron events/dimuon events?		
Evidence:	+	2-3 pieces of evidence (data, observations, calculations) that support the claim
Questions to consider: What data supports the claim? How are these data presented?		

Reasoning: Justify how and why the evidence backs up the claim. Use scientific principles to explain *why* you got this data. Use and explain relevant scientific terms. Questions to consider: How do these data compel this claim? Is anything left out? **Sources of Uncertainty in Measurement:** Estimate the uncertainty in measurement and discuss what might cause it. Question to consider: Why and to what extent can we trust your results?