



## New Task for Zero Degree Calorimetry



There is a proposal under consideration with the ATLAS experiment to instrument IP1 with ZDCs

This device is an evolution of the successful experience with ZDCs at RHIC

Due to the synergy between the luminometer under construction for LARP and the ZDCs, a proposal has been submitted to extend the LARP support of luminosity measurements to the electronics and data acquisition system for the ZDC

In practice, the requirements are similar but not identical

ZDCs could really benefit from good time resolution ( $\sim 50$  ps) to measure "Z" distribution of luminosity

Lumi has an internal response time in the order of 10-12 ns

Should look at the RHIC experience in terms of sensitivity to background, linearity and overall performance