

# UPGRADE

# TDR

LHCb  
VELO

VERTEX LO  
CATOR

A schematic diagram of the LHCb detector upgrade, showing the layout of the Vertex Locator (VELO) and the LHCb detector components. The diagram is enclosed in a large black circle. A smaller circle on the left contains a zoomed-in view of the VELO structure. The main diagram shows the VELO (red and yellow) and the LHCb detector components (green and blue) arranged around the interaction point. A black arrow points to the interaction point.

## Technical Design Report