**CERN & NUST MISIS**

**Development of new technologies to search for new phenomena at the LHCb experiments at CERN with NUST MISIS**

LHCb is an experiment set up to explore what happened after the Big Bang that allowed matter to survive and build the Universe we inhabit today

[About LHCb experiment](http://lhcb.web.cern.ch/lhcb/)

[About NUST MISIS](https://en.misis.ru)

**Current challenges for NUST MISIS:**

Development of radiation hard, fast scintillators and light guides

Development of new generation fast semiconductor sensors in high radiation environment

Development of ultra-high resolution emulsion for fine tracking of charged particles

Development of technology for large magnetic systems

Development of technology for absorber manufacturing

Education in MISIS