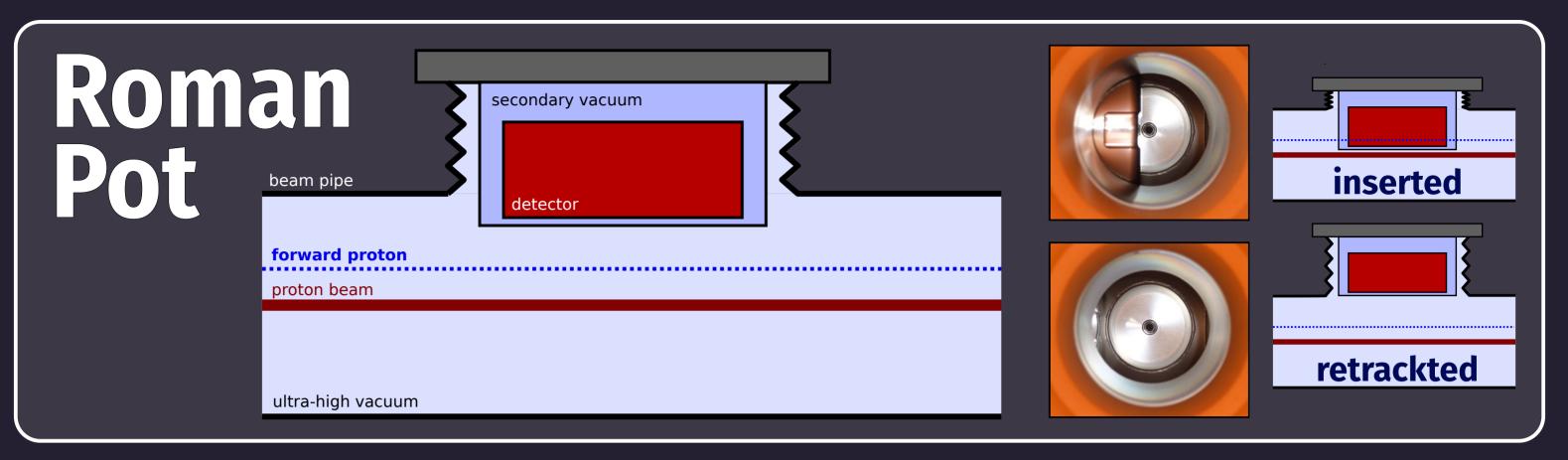
# ATLAS Roman Pots

at LHC Run 3 – Detector Status



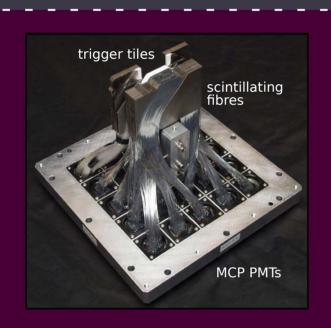
## Protons get separated from the beam

because they get scattered





because they lose some energy

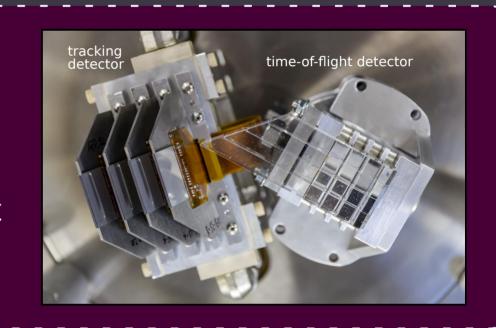


# ALFA

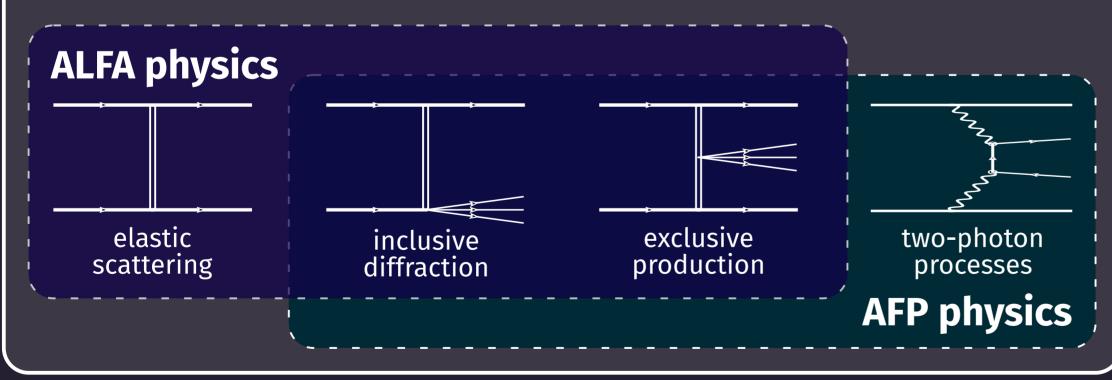
require special LHC optics settings with reduced final beam focussing at the interaction point

# **AFP**

work as a magnetic spectrometer taking advantage of the LHC beam-separation dipole magnets



## Motivation: a new physics object for ATLAS



# Data-taking plans

#### **AFP**

all standard LHC runs(large integrated luminosity)special low pile-up runs(clean environment)

#### **ALFA**

– special runs with high-β\* LHC optics (acceptance for small scattering angles)

### **Preparations for Run 3**

#### **AFP**

new ToF light guidance bars and MCP-PMTs, out-of-vacuum PMT design for ToF MCP-PMT
3D Si modules replaced

#### **ALFA**

- motherboards replaced



commissioning in progress

