

- **which are the contributions you can bring to the PID activity towards the proposal in the next months**
 - advance with [Monte Carlo simulations](#) for performance studies of a forward RICH detector
 - benefit from existing GEANT4 simulation experience and results (eRD14 dRICH)
 - bring forward RICH PID in context of analytical and parametrised approaches for fast-simulation
 - moving towards implementation of geometry / algorithms for full simulation / reconstruction
 - continue detector [R&D on dual-radiator RICH](#) detector prototype, photodetectors and electronics
 - SiPM irradiation campaign in May and characterisation for radiation-hardness
 - development of timestamp-based FE electronics with streaming-readout capabilities
 - beam tests of the dRICH prototype at CERN in Sep/Oct (though timeline might not fit with the one of proposal)
 - continue [R&D on MPGD-based photodetectors](#) for RICH in windowless approach
- **what are the most relevant and urgent questions in the PID sector**
 - need to have a clearer idea of global EIC@IP6 Monte Carlo [simulation strategy](#) and combined PID
 - identification of suitable visible-light [photodetectors](#) for operation in B field and moderate radiation
 - investigating the SiPM option, but important have a plan-B available → LAPPD
- **how do you see globally PID for Detector 1**
 - we believe EIC@IP6 should perform a critical [analysis of PID systems](#)
 - i.e. TPC / TOF in the barrel of the reference detector (synergic TOF - dE/dx combination for low p_T PID)
 - invest more studies on the use of [multiple \(combined\) PID information](#) across the experiment
 - i.e. electron ID via combined use of RICH + TOF + ECAL
 - further [engineering evaluation](#) of the PID systems and the volumes