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The RD53 data format and communication efficiency

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The RD53 Collaboration was established in 2013 to develop the next generation of pixel readout chips for the High Luminosity LHC detector upgrades. This proposal is to extend the scope of the collaboration to design the final pixel readout chip for the ATLAS and CMS upgrade detectors. A common design is proposed that can be fabricated with different pixel matrix sizes. The proposed work plan and resources are presented.

Presenter: RYD, Anders (Cornell University (US))