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milliQan and future ancillary experiments

During LHC Run3, the milliQan experiment will search for millicharged particles as an indicator of a dark sector, expecting to exclude much of the previously unexplored parameter space in the 1GeV to 100GeV mass range. Besides the advantage of exploring a large phase space at relatively low cost, small ancillary experiments like milliQan are very student friendly: there are many opportunities to learn and contribute, from building the detector to powering it and taking data, and developing simulation and analysis code. I wanted to share my positive student experience with milliQan so far, in hopes of promoting it and similar ancillary experiments in the future. Particularly, I hope that future large facilities will be designed with the consideration of leaving space and access for ancillary experiments in mind.

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