



Contribution ID: 66

Type: **not specified**

## Search for millicharged particles with the MilliQan experiment using Run 3 data

The milliQan experiment searches for milli-charged particles, with electric charge  $O(10^{-3})e$  or less, produced in pp collisions at the LHC. The milliQan bar detector has collected  $\sim 141 \text{ fb}^{-1}$  of data during LHC Run 3 and this presentation will focus on the detector performance, study of beam muons to calibrate the detector and the search strategy. The talk will also focus on the newly constructed milliQan slab detector which provides complimentary phase space coverage to the bar detector, especially at high masses. The focus of the talk will be on the powerful impact of small scale AGILE experiments on the search for beyond standard model physics.

**Primary author:** SANTPUR, Sai Neha (University of California, Santa Barbara)

**Presenter:** SANTPUR, Sai Neha (University of California, Santa Barbara)

**Session Classification:** Lightning Round Talks