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Search for Heavy Stable Charged Particles at the CMS experiment using the RPC phase II upgrade

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Several theoretical models accomodate the possibility of Heavy Stable Charged Particles (HSCP). With improved data aquisition in the phase-II upgrade of the CMS-RPC system, triggering and identification of HSCPs are expected to be possible using the Time of Flight technique. Moreover, new RPC chambers will be installed to extend the acceptance coverage up to $|\eta|<2.4$ with improved time and spatial resolution which can complement this search. Performance of new Level-1 trigger strategies to detect HSCPs at the High Luminosity LHC will be shown in this poster.

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