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Probing new physics with dedicated data streams at CMS

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Signatures of new physics at the LHC are varied and by nature often very different from those of Standard Model processes. Novel experimental techniques, including dedicated datastreams are exploited to boost the sensitivity of the CMS Experiment to search for such signatures. In this talk we highlight the most recent CMS results, obtained using the data collected at the LHC Run-II and Run-III through the so-called “Data Scouting” and “Data Parking” strategies. These approaches have allowed to set some of the strongest constraints to date for low mass resonances in prompt and long-lived signatures.

Secondary track

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