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Boosted Jet Identification for Searches for Vector-Like Quarks in CMS

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The CMS search program for Vector-Like Quarks uses a wide variety of tools and techniques to identify the massive bosons and heavy quarks resulting from their decays. Since VLQ masses are expected to be in the TeV scale, their decaying daughter particles are highly boosted. CMS searches for VLQs have benefitted greatly from novel jet classifiers designed for high-momentum regimes. This poster will summarize jet identification tools used in CMS and their applications to VLQ searches, in addition to touching upon the outlook of the CMS VLQ search program.

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